



Governo do Estado de Mato Grosso  
SECITECI - Secretaria de Estado de Ciência, Tecnologia e Inovação

SECITECI
Fl. 230
Rub. 18

SECITECI
Fl. 230
Rub. 18

# PROPOSTA E DOCUMENTAÇÃO

# JC COMÉRCIO DE TECNOLOGIA EIRELI

À  
SECRETARIA DE ESTADO DE CIÊNCIA, TECNOLOGIA E INOVAÇÃO – SECITECI/MT  
PREGÃO ELETRÔNICO 002/2021



## IDENTIFICAÇÃO DA PROPONENTE

**RAZÃO SOCIAL:** JC COMÉRCIO DE TECNOLOGIA EIRELI

**NOME FANTASIA:** JC COMÉRCIO

**CNPJ:** 36.190.664/0001-08

**I.E:** 13.801.983-5

**ENDEREÇO:** AV SÃO SEBASTIÃO, 3855, QUILOMBO, CUIABÁ/MT – CEP 78045-000

**TELEFONE:** (65) 3634-0798

**WHATSAPP:** (65) 3634-0798

**E-MAILS:** jccomercio.tecnologia@gmail.com

**DADOS BANCÁRIOS:** BANCO DO BRASIL **AGÊNCIA:** 2363-9 **CONTA CORRENTE:** 215063-8

**REPRESENTANTE:** KARIN COLLI

Prezados (as) Senhores (as),

Apresentamos ao pregoeiro e sua equipe de apoio, nossa Proposta referente à Licitação em epígrafe, objetivando a Aquisição de Hard Disk (HD) para atender a Secretaria de Estado de Ciência, tecnologia e Inovação – SECITECI-MT, conforme descrito na planilha abaixo.

Esperamos que esta proposta esteja de acordo com vossas exigências.

Sem mais, agradecemos desde já pela atenção e colocamo-nos a inteira disposição para quaisquer esclarecimentos,

Atenciosamente,

**KARIN COLLI**  
REPRESENTANTE LEGAL  
CPF: 048.215.731-30

### **JC COMÉRCIO DE TECNOLOGIA**

CNPJ: 36.190.664/0001-08 – I.E.: 13.801.983-5  
Av: São Sebastião, 3855, Quilombo, Cuiabá-MT – CEP 78045-000  
Fone.: (65) 3634-0798 - Email: jccomercio.tecnologia@gmail.com

# JC COMÉRCIO DE TECNOLOGIA EIRELI

À  
SECRETARIA DE ESTADO DE CIÊNCIA, TECNOLOGIA E INOVAÇÃO – SECITECI/MT  
PREGÃO ELETRÔNICO 002/2021

SECITECI
Fl. 139
Rub. 18

SECITECI
Fl. 232
Rub. 18

## PROPOSTA COMERCIAL

### LOTE 01 – AMPLA CONCORRÊNCIA

ITEM	DESCRIÇÃO / ESPECIFICAÇÃO	UND.	QTDE.	R\$ UNITÁRIO	R\$ TOTAL
01	<p>HD ORIGINAL 300GB 2.5" SAS 6Gbps 10K With Tray - DISCO RÍGIDO DE 300GB SAS SFF 10KRPM, HOTPLUG, TOTALMENTE COMPATÍVEL COM A ESTAÇÃO DE TRABALHO TIPO - 5 - RACK - (CÓDIGO SIAG: 1056547), (APROVADO PELA DGTI - CEPROMAT, ABRIL/2014), CARACTERÍSTICAS TÉCNICAS: DISCO RÍGIDO DE 300GB SAS SFF 10KRPM, HOTPLUG, TOTALMENTE COMPATÍVEL E DA MESMA MARCA DA ESTAÇÃO DE TRABALHO TIPO - 5 - RACK - (CÓDIGO SIAG: 1056547). APRESENTAR MARCA, MODELO, PART NUMBER E FOLDER DO SITE DO FABRICANTE SOB PENA DE DESCLASSIFICAÇÃO.</p> <p><b>MARCA HP</b> <b>MODELO 300 GB 10K 2,5 HOT</b> <b>PART NUMBER 652564-B21</b></p>	UN	06	1.805,13	10.830,78
02	<p>HD ORIGINAL 600GB SAS 10K RPM – DISCO RÍGIDO DE 600GB SAS SFF 10KRPM, HOTPLUG, TOTALMENTE COMPATÍVEL COM A ESTAÇÃO DE TRABALHO TIPO - 5 - RACK (CÓDIGO SIAG: 1056547), (APROVADO PELA DGTI - CEPROMAT, ABRIL/2014), CARACTERÍSTICAS TÉCNICAS: DISCO RÍGIDO DE 600GB SAS SFF 10KRPM, TOTALMENTE COMPATÍVEL E DA MESMA MARCA DA ESTAÇÃO DE TRABALHO TIPO - 5 - RACK - (CÓDIGO SIAG: 1056547). APRESENTAR MARCA, MODELO, PART NUMBER E FOLDER DO SITE DO FABRICANTE SOB PENA DE DESCLASSIFICAÇÃO.</p> <p><b>MARCA HP</b> <b>MODELO 600 GB SAS 10K 2,5</b> <b>PART NUMBER 652583-B21</b></p>	UN	06	3.174,99	19.049,94

### JC COMÉRCIO DE TECNOLOGIA

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# JC COMÉRCIO DE TECNOLOGIA EIRELI

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SECRETARIA DE ESTADO DE CIÊNCIA, TECNOLOGIA E INOVAÇÃO – SECITECI/MT  
PREGÃO ELETRÔNICO 002/2021



03	HD ORIGINAL 600GB SAS 6GBs 15K RPM 3.5" 16MB With Tray - HARDDISK SAS 600GB 15K COMPATIVEL COM SERVIDORES, HDS HOT-PLUG (HOT-SWAP) COM CAPACIDADE DE ARMAZENAMENTO DE 600GB, PADRÃO SAS DE 15.000 RPM, PARA SER UTILIZADO EM SERVIDOR DE ARMAZENAMENTO DE DADOS. UNIDADE. FORMATO: 3,5" INTERFACE: SAS CAPACIDADE: 600GB VELOCIDADE DE ROTAÇÃO: 15000 RPM BUFFER: 16MB TAXA DE TRANSFERÊNCIA EXTERNA: 3GB/S.  MARCA HP MODELO 600 SAS 3,5 HOT SWAP 15K PART NUMBER 765424-B21	UN	06	3.698,49	22.190,94
04	HD 1TB SATA DISCO RÍGIDO DE 1TB SATA 7,2KRPM  MARCA WEST DIGITAL MODELO 1 TB PART NUMBER WD10EZEX	UN	08	703,98	5.631,84
05	HD 2TB SATA HARD DISK SATA II, 2TB (2000GB), 7200 RPM - 64MB  MARCA SEAGATE MODELO 2 TB BARRACUDA PART NUMBER ST2000DM008	UN	09	1.174,56	10.571,04

**VALOR TOTAL DA PROPOSTA: R\$ 68.274,54**

Cuiabá/MT, 26 de julho de 2021

**KARIN COLLI**  
REPRESENTANTE LEGAL  
CPF: 048.215.731-30

**JC COMÉRCIO DE TECNOLOGIA**

CNPJ: 36.190.664/0001-08 – I.E.: 13.801.983-5  
Av: São Sebastião, 3855, Quilombo, Cuiabá-MT – CEP 78045-000  
Fone.: (65) 3634-0798 - Email: jccomercio.tecnologia@gmail.com

# JC COMÉRCIO DE TECNOLOGIA EIRELI

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SECRETARIA DE ESTADO DE CIÊNCIA, TECNOLOGIA E INOVAÇÃO – SECITECI/MT  
PREGÃO ELETRÔNICO 002/2021

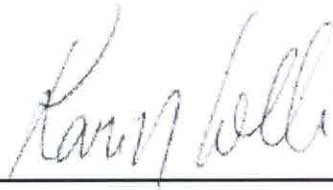
SECITECI
Fl. 134
Rub. 18

SECITECI
Fl. 234
Rub. 18

## CONDIÇÕES GERAIS

1. Nos preços acima apresentados estão contemplados, além dos serviços, todos os custos diretos e indiretos, como impostos, taxas, contribuições fiscais, retenções legais, e todas as despesas vinculadas ao transporte para entrega dos equipamentos.
2. Esta proposta tem validade de 60 (sessenta) dias, a contar da abertura dos envelopes ou conforme as exigências do edital em casos de prazos maiores que 60 (sessenta) dias.
3. A apresentação desta Proposta de Preço indica nossa plena aceitação das condições estabelecidas no instrumento convocatório e seus anexos.

Cuiabá/MT, 26 de julho de 2021



**KARIN COLLI**  
REPRESENTANTE LEGAL  
CPF: 048.215.731-30

# JC COMÉRCIO DE TECNOLOGIA EIRELI

À  
SECRETARIA DE ESTADO DE CIÊNCIA, TECNOLOGIA E INOVAÇÃO – SECITECI/MT  
PREGÃO ELETRÔNICO 002/2021

SECITECI
Fl. 135
Rub. 18

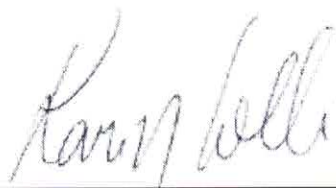
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Rub. 18

## CONDIÇÕES DE PARTICIPAÇÃO

- ❖ Validade da Proposta: Conforme o Edital
- ❖ Prazo de Entrega: Conforme Edital
- ❖ Garantia: Conforme o Edital
- ❖ Condições de Pagamento: Conforme o Edital
- ❖ Declaramos que na proposta estão incluídas, as incidências fiscais, encargos, seguros, tributos de qualquer natureza ou espécie e quaisquer outras despesas, necessárias ao perfeito atendimento do objeto desta licitação
- ❖ Declaramos que, caso vencedor, teremos disponibilidade para realizar a entrega dos materiais nos prazos solicitados no edital e seus anexos.

Atenciosamente,

Cuiabá/MT, 26 de julho de 2021



**KARIN COLLI**  
REPRESENTANTE LEGAL  
CPF: 048.215.731-30

# JC COMÉRCIO DE TECNOLOGIA EIRELI

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PREGÃO ELETRÔNICO 002/2021

SECITECI
Fl. 136
Rub. 18

SECITECI
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Rub. 18

## IDENTIFICAÇÃO DA PROPONENTE

**RAZÃO SOCIAL:** JC COMÉRCIO DE TECNOLOGIA EIRELI

**NOME FANTASIA:** JC COMÉRCIO

**CNPJ:** 36.190.664/0001-08

**I.E:** 13.801.983-5

**ENDEREÇO:** AV SÃO SEBASTIÃO, 3855, QUILOMBO, CUIABÁ/MT – CEP 78045-000

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**E-MAILS:** jccomercio.tecnologia@gmail.com

**DADOS BANCÁRIOS:** BANCO DO BRASIL    **AGÊNCIA:** 2363-9    **CONTA CORRENTE:** 215063-8

**REPRESENTANTE:** KARIN COLLI

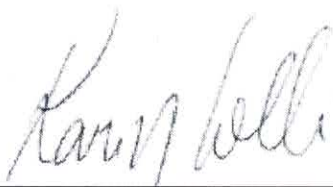
Prezados (as) Senhores (as),

Apresentamos ao pregoeiro e sua equipe de apoio, nossa Proposta referente à Licitação em epígrafe, objetivando a Aquisição de Hard Disk (HD) para atender a Secretaria de Estado de Ciência, tecnologia e Inovação – SECITECI-MT, conforme descrito na planilha abaixo.

Esperamos que esta proposta esteja de acordo com vossas exigências.

Sem mais, agradecemos desde já pela atenção e colocamo-nos a inteira disposição para quaisquer esclarecimentos,

Atenciosamente,



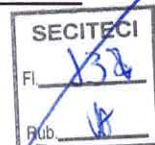
**KARIN COLLI**  
REPRESENTANTE LEGAL  
CPF: 048.215.731-30

### **JC COMÉRCIO DE TECNOLOGIA**

CNPJ: 36.190.664/0001-08 – I.E.: 13.801.983-5  
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Fone.: (65) 3634-0798 - Email: jccomercio.tecnologia@gmail.com

# JC COMÉRCIO DE TECNOLOGIA E RELI

À  
SECRETARIA DE ESTADO DE CIÊNCIA, TECNOLOGIA E INOVAÇÃO – SECITECI/MT  
PREGÃO ELETRÔNICO 002/2021



## PROPOSTA COMERCIAL

LOTE 02 – EXCLUSIVO ME/EPP

ITEM	DESCRIÇÃO / ESPECIFICAÇÃO	UND.	QTDE.	R\$ UNITÁRIO	R\$ TOTAL
01	<p>HD ORIGINAL 300GB 2.5" SAS 6Gbps 10K With Tray - DISCO RÍGIDO DE 300GB SAS SFF 10KRPM, HOTPLUG, TOTALMENTE COMPATÍVEL COM A ESTAÇÃO DE TRABALHO TIPO - 5 - RACK - (CÓDIGO SIAG: 1056547), (APROVADO PELA DGTI – CEPROMAT, ABRIL/2014), CARACTERÍSTICAS TÉCNICAS: DISCO RÍGIDO DE 300GB SAS SFF 10KRPM, HOTPLUG, TOTALMENTE COMPATÍVEL E DA MESMA MARCA DA ESTAÇÃO DE TRABALHO TIPO - 5 - RACK - (CÓDIGO SIAG: 1056547). APRESENTAR MARCA, MODELO, PART NUMBER E FOLDER DO SITE DO FABRICANTE SOB PENA DE DESCLASSIFICAÇÃO.</p> <p><b>MARCA HP</b> <b>MODELO 300 GB 10K 2,5 HOT</b> <b>PART NUMBER 652564-B21</b></p>	UN	02	1.805,13	3.610,26
02	<p>HD ORIGINAL 600GB SAS 10K RPM – DISCO RÍGIDO DE 600GB SAS SFF 10KRPM, HOTPLUG, TOTALMENTE COMPATÍVEL COM A ESTAÇÃO DE TRABALHO TIPO - 5 - RACK (CÓDIGO SIAG: 1056547), (APROVADO PELA DGTI – CEPROMAT, ABRIL/2014), CARACTERÍSTICAS TÉCNICAS: DISCO RÍGIDO DE 600GB SAS SFF 10KRPM, TOTALMENTE COMPATÍVEL E DA MESMA MARCA DA ESTAÇÃO DE TRABALHO TIPO - 5 - RACK - (CÓDIGO SIAG: 1056547). APRESENTAR MARCA, MODELO, PART NUMBER E FOLDER DO SITE DO FABRICANTE SOB PENA DE DESCLASSIFICAÇÃO.</p> <p><b>MARCA HP</b> <b>MODELO 600 GB SAS 10K 2,5</b> <b>PART NUMBER 652583-B21</b></p>	UN	02	3.174,99	6.349,98

### JC COMÉRCIO DE TECNOLOGIA

CNPJ: 36.190.664/0001-08 – I.E.: 13.801.983-5  
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# JC COMÉRCIO DE TECNOLOGIA EIRELI

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PREGÃO ELETRÔNICO 002/2021

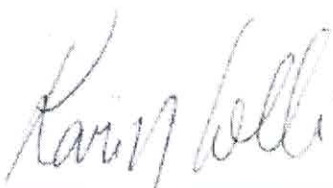
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Fl. 138
Rub. 18

03	HD ORIGINAL 600GB SAS 6GBs 15K RPM 3.5" 16MB With Tray - HARDDISK SAS 600GB 15K COMPATIVEL COM SERVIDORES, HDS HOT-PLUG (HOT-SWAP) COM CAPACIDADE DE ARMAZENAMENTO DE 600GB, PADRÃO SAS DE 15.000 RPM, PARA SER UTILIZADO EM SERVIDOR DE ARMAZENAMENTO DE DADOS. UNIDADE. FORMATO: 3,5" INTERFACE: SAS CAPACIDADE: 600GB VELOCIDADE DE ROTAÇÃO: 15000 RPM BUFFER: 16MB TAXA DE TRANSFERÊNCIA EXTERNA: 3GB/S.  MARCA HP MODELO 600 SAS 3,5 HOT SWAP 15K PART NUMBER 765424-B21	UN	01	3.698,49	3.698,49
04	HD 1TB SATA DISCO RÍGIDO DE 1TB SATA 7,2KRPM  MARCA WEST DIGITAL MODELO 1 TB PART NUMBER WD10EZEX	UN	02	703,98	1.407,96
05	HD 2TB SATA HARD DISK SATA II, 2TB (2000GB), 7200 RPM - 64MB  MARCA SEAGATE MODELO 2 TB BARRACUDA PART NUMBER ST2000DM008	UN	03	1.174,56	3.523,68

SECITECI
Fl. 238
Rub. 18

**VALOR TOTAL DA PROPOSTA: R\$ 18.590,37**

Cuiabá/MT, 26 de julho de 2021



**KARIN COLLI**  
REPRESENTANTE LEGAL  
CPF: 048.215.731-30

**JC COMÉRCIO DE TECNOLOGIA**  
CNPJ: 36.190.664/0001-08 – I.E.: 13.801.983-5  
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# JC COMÉRCIO DE TECNOLOGIA EIRELI

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SECRETARIA DE ESTADO DE CIÊNCIA, TECNOLOGIA E INOVAÇÃO – SECITECI/MT  
PREGÃO ELETRÔNICO 002/2021

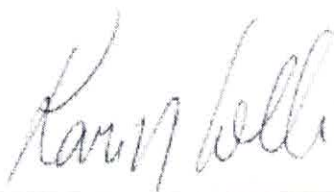
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## CONDIÇÕES GERAIS

1. Nos preços acima apresentados estão contemplados, além dos serviços, todos os custos diretos e indiretos, como impostos, taxas, contribuições fiscais, retenções legais, e todas as despesas vinculadas ao transporte para entrega dos equipamentos.
2. Esta proposta tem validade de 60 (sessenta) dias, a contar da abertura dos envelopes ou conforme as exigências do edital em casos de prazos maiores que 60 (sessenta) dias.
3. A apresentação desta Proposta de Preço indica nossa plena aceitação das condições estabelecidas no instrumento convocatório e seus anexos.

Cuiabá/MT, 26 de julho de 2021



**KARIN COLLI**  
REPRESENTANTE LEGAL  
CPF: 048.215.731-30

# JC COMÉRCIO DE TECNOLOGIA EIRELI

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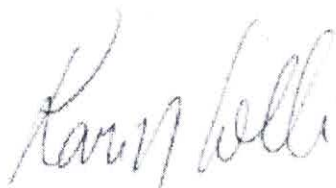
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## CONDIÇÕES DE PARTICIPAÇÃO

- ❖ Validade da Proposta: Conforme o Edital
- ❖ Prazo de Entrega: Conforme Edital
- ❖ Garantia: Conforme o Edital
- ❖ Condições de Pagamento: Conforme o Edital
- ❖ Declaramos que na proposta estão incluídas, as incidências fiscais, encargos, seguros, tributos de qualquer natureza ou espécie e quaisquer outras despesas, necessárias ao perfeito atendimento do objeto desta licitação
- ❖ Declaramos que, caso vencedor, teremos disponibilidade para realizar a entrega dos materiais nos prazos solicitados no edital e seus anexos.

Atenciosamente,

Cuiabá/MT, 26 de julho de 2021



**KARIN COLLI**  
REPRESENTANTE LEGAL  
CPF: 048.215.731-30



SECITECI	
Fl.	247
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Governo do Estado de Mato Grosso  
SECITECI - Secretaria de Estado de Ciência, Tecnologia e Inovação

Processo nº 111739/2021.

**TERMO DE ENCERRAMENTO**

Certifico que nesta data encerra-se o **volume I** do processo **111739/2021**, com folhas numeradas até **Nº 241**.

Cuiabá (MT), 27 de julho de 2021.

Vitor Felipe Bastos de Arruda Carneiro  
Assessor Técnico da Coord. De Aquisições e Contratos  
SECITECI-MT



**Governo do Estado de Mato Grosso**  
SECITECI - Secretaria de Estado de Ciência, Tecnologia e Inovação

SECITECI
Fl. 249
Rub. A

**Processo nº 111739/2021.**

**TERMO DE ABERTURA**

Certifico que nesta data inicia-se o **volume II** do processo **111739/2021**, que se inicia com a folha Nº **242**.

Cuiabá (MT), 27 de julho de 2021.

  
Vitor Felipe Bastos de Arruda Carneiro  
Assessor Técnico da Coord. De Aquisições e Contratos  
SECITECI-MT



**BARRACUDA**  
COMPUTE

**SEAGATE**

3.5 HDD DATA SHEET

Amazing Versatility.  
Unmatched Dependability.



Seagate brings over 20 years of trusted performance and reliability to the Seagate® BarraCuda® 3.5-inch HDD—now available in capacities up to 8TB.



### Best-Fit Applications

- Desktop or all-in-one PCs
- Home servers
- Entry-level direct-attached storage devices (DAS)

## Key Advantages

**Versatile** HDDs for all your PC needs bring you industry-leading excellence in personal computing.

**For over 20 years** the BarraCuda family has delivered super-reliable storage for the hard drive industry.

**Capacities up to 8TB** for desktops. BarraCuda leads the market with the widest range of storage options available.

**Advanced Power** modes help save energy without sacrificing performance.<sup>1</sup>

**SATA 6Gb/s** interface optimizes burst performance.<sup>1</sup>

**Seagate Secure**® models provide Self-Encrypting Drive (SED) hardware-based data security and deliver an Instant Secure Erase feature for safe, fast and easy drive retirement. They meet NIST 800-88 media sanitization specifications and also support the Trusted Computer Group (TCG) Opal standard.<sup>2,3</sup>

<sup>1</sup> Performance may vary depending on user's hardware configuration and operating system.

<sup>2</sup> Seagate Secure models are not available in all countries. May require TCG-compliant host or controller support.

<sup>3</sup> Refer to specifications table for further information and feature options.





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Specifications	8TB	6TB	4TB	3TB	2TB
Standard Model Numbers	ST8000DM004	ST6000DM003	ST4000DM004	ST3000DM008	ST2000DM008
Seagate Secure <sup>®</sup> Model Numbers	—	—	—	ST3000DM002	—
Bytes per Sector	4096	4096	4096	4096	4096
Heads/Disks	8/4	6/3	4/2	6/3	2/1
<b>Performance</b>					
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
SATA Transfer Rates Supported (Gb/s)	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5
Max. Sustained Transfer Rate OD (MB/s)	190MB/s	190MB/s	190MB/s	210MB/s	220MB/s
Cache, Multisegmented (MB)	256	256	256	64	256
<b>Reliability/Data Integrity</b>					
Load/Unload Cycles	300,000	300,000	300,000	300,000	300,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per Year (24x7)	2400	2400	2400	2400	2400
Workload Rate Limit (TB/Year)	55	55	55	55	55
Limited Warranty (years)	2	2	2	2	2
<b>Power Management</b>					
Startup Power (A)	2.0	2.0	2.0	2.5	2.0
Operating Mode, Typical (W)	5.3	5.3	3.7	8	4.3
Idle Average (W)	3.4W	3.4W	2.5W	5.40W	3.0W
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.25/0.25	0.25/0.25	0.75/0.75	0.3/0.3
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%	±10%	±10%	±10%	±10%
<b>Environmental/Temperature</b>					
Operating (ambient, min)	0°C	0°C	0°C	0°C	0°C
Operating (drive case, max)	60°C	60°C	60°C	60°C	60°C
Nonoperating (ambient)	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C
Halogen Free	Yes	Yes	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes	Yes	Yes
<b>Physical</b>					
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in	20.20mm/0.795in	26.11mm/1.028in	20.20mm/0.795in
Width (mm/in, max)	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb)	630g/1.389lb	610g/1.345lb	490g/1.08lb	626g/1.38lb	415g/0.915lb
Carton Unit Quantity	20	20	25	20	25
Cartons per Pallet/Cartons per Layer	40 / 8	40 / 8	40 / 8	40 / 8	40 / 8



SECITECI

143

SECITECI

245

Specifications	2TB	1TB	500GB
Standard Model Numbers	ST2000DM006	ST1000DM010	ST500DM009Rub
Seagate Secure <sup>®</sup> Model Numbers	ST2000DM002	—	—
Bytes per Sector	4096	4096	4096
Heads/Disks	6/3 or 4/2	2/1	2/1
<b>Performance</b>			
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
SATA Transfer Rates Supported (Gb/s)	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5
Max. Sustained Transfer Rate OD (MB/s)	210MB/s	210MB/s	210MB/s
Cache, Multisegmented (MB)	64	64	32
<b>Reliability/Data Integrity</b>			
Load/Unload Cycles	300,000	—	—
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per Year (24x7)	2400	2400	2400
Workload Rate Limit (TB/Year)	55	55	55
Limited Warranty (years)	2	2	2
<b>Power Management</b>			
Startup Power (A)	2.5	2.0	2.0
Operating Mode, Typical (W)	8	5.3	5.3
Idle Average (W)	5.40W	4.60W	4.60W
Standby Mode/Sleep Mode, Typical (W)	0.75/0.75	0.94/0.94	0.94/0.94
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%	±10%	±10%
<b>Environmental/Temperature</b>			
Operating (ambient, min)	0°C	0°C	0°C
Operating (drive case, max)	60°C	60°C	60°C
Nonoperating (ambient)	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C
Halogen Free	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes
<b>Physical</b>			
Height (mm/in, max)	26.11mm/1.028in	19.99mm/0.787in	19.99mm/0.787in
Width (mm/in, max)	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb)	626g/1.38lb	400g/0.88lb	400g/0.88lb
Carton Unit Quantity	20	25	25
Cartons per Pallet/Cartons per Layer	40 / 8	40 / 8	40 / 8



AMERICAS Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000  
ASIA/PACIFIC Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888  
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Pesquisar



## Detalhes do produto -

### HDD WESTERN DIGITAL 1TB SATA 6.0GB/S WD10EZEX 64MB 7200 RPM

As unidades de disco rígido WD Blue fornecem um desempenho e confiabilidade sólidos, enquanto que disponibilizam todo o espaço que você precisa para gravar quantidades enormes de fotos, vídeos e arquivos. Essas unidades foram projetadas para serem usadas como unidades principais em PCs de mesa, dispositivos externos e para algumas aplicações industriais.

## Descrição Completa -

EAN	7180377
NCM	8471701
Capacidade	01TB
Dimensao do Produto (A / P / L)	26.0mm

## Garantia +

## Product Number -

WD10EZEX-00WN4A0

Share  

# QuickSpecs

## HPE SAS Hard Drives

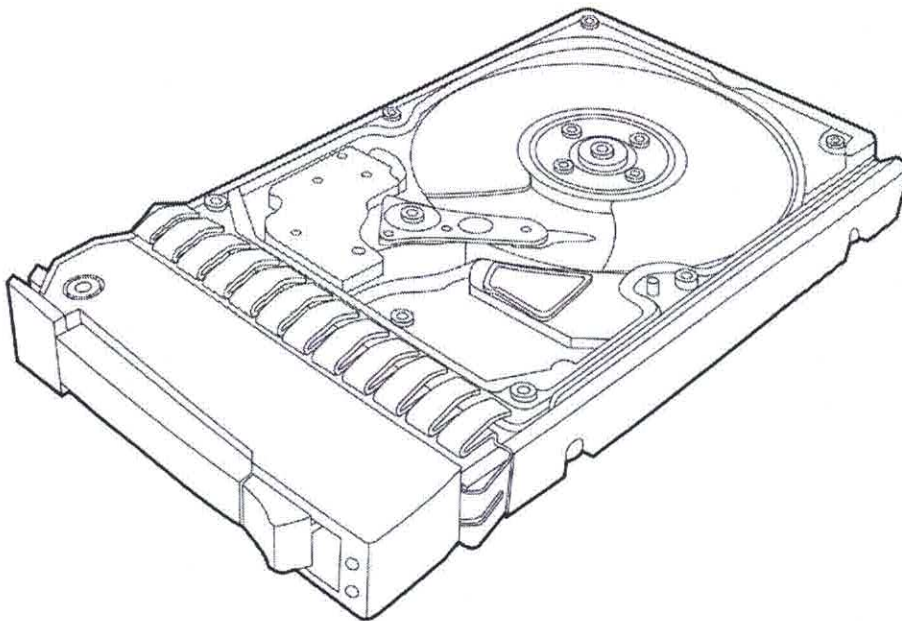
### Overview

#### HPE Hard Disk Drives

HPE Hard Disk Drives (HDDs) delivers proven performance at industry leading capacities backed by high quality and reliability. HPE HDDs are the preferred choice for many workloads ranging from small businesses to large enterprise.

HPE hard disk drives are optimized to deliver maximum performance on HPE server platforms, and are proven for applications that demand reliable performance in 24x7 operational environments. HPE HDDs offer customers great value per gigabyte without sacrificing performance. In addition, an industry-leading testing and qualification program ensures that our drives are rugged enough for any need.

HPE HDDs are available for three types of workloads —Entry, Midline and Enterprise, two interfaces—SAS and SATA, and in a variety of capacities—up to 10 TB and growing.



#### What's New

- HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive
- HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e Midline 1yr Warranty Hard Drive
- HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive
- HPE 6TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive

Overview

Models

**HPE SAS Hot Plug “SmartDrive” Carriers**

**SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives**

HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	718162-B21
HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781518-B21
HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785069-B21
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781516-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21

**SAS Hot Plug SmartDrive SFF (2.5-inch) Enterprise 512e Drives**

HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive	748387-B21

**SAS Hot Plug SmartDrive SFF (2.5-inch) Midline Drives**

HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-B21

**SAS Hot Plug SmartDrive SFF (2.5-inch) Midline 512e Drives**

HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21
HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21

**SAS Hot Plug SmartDrive LFF (3.5-inch) Enterprise Drives**

HP 600GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive	652620-B21
HP 450GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive	652615-B21
HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21

**SAS Hot Plug SmartDrive LFF (3.5-inch) Midline Drives**

HPE 6TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846514-B21
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-B21
HPE 3TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846528-B21
HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
HPE 1TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846524-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818367-B21
HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818365-B21

**SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Drives**

HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819201-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21



Overview

**SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Performance Drives**

- HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive
- HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive

**SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Helium Drives**

- HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive
- HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive
- HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive
- HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive

**HPE SAS Hot Plug Drives**

**NOTE:** These drives are not supported by Gen8/Gen9 servers.

**SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives**

- HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive
- HP 900GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive
- HP 600GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive
- HP 450GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive
- HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive
- HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive
- HP 900GB 12G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive
- HP 600GB 12G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive
- HP 300GB 12G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive
- HP 300GB 6G SAS 15K rpm SFF (2.5-inch) Hot Plug Enterprise 3yr Warranty Hard Drive
- HP 146GB 6G SAS 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive
- HP 600GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive
- HP 450GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive
- HP 300GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive

**SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives**

- HP 600GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive
- HP 450GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive
- HP 600GB 12G SAS 15K rpm LFF (3.5-inch) CC Enterprise 3yr Warranty Hard Drive
- HP 450GB 12G SAS 15K rpm LFF (3.5-inch) CC Enterprise 3yr Warranty Hard Drive
- HP 300GB 12G SAS 15K rpm LFF (3.5-inch) CC Enterprise 3yr Warranty Hard Drive

**SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives**

- HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive
- HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive

**SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives**

- HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive
- HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive
- HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive
- HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline 1yr Warranty Hard Drive
- HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline 1yr Warranty Hard Drive

**SAS Hot Plug LFF (3.5-inch) Midline (MDL) 512e Helium Drives**

- HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e Midline 1yr Warranty Hard Drive
- HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) 512e Helium 1yr Warranty Hard Drive
- HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) 512e Helium 1yr Warranty Hard Drive

**HPE SAS Non-Hot Plug Drives**

**SAS Non-Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives**

- HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive

**SAS Non-Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives**

- HP 600GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive



793671-B21  
793669-B21

857644-B21  
861590-B21  
793703-B21  
793699-B21

718160-B21  
619291-B21  
581286-B21  
581284-B21  
507127-B21  
785079-B21  
785075-B21  
785073-B21  
785071-B21  
627117-B21  
512547-B21  
785103-B21  
785101-B21  
785099-B21

516828-B21  
516816-B21  
737396-B21  
737392-B21  
737390-B21

605835-B21  
507610-B21

782669-B21  
693689-B21  
625031-B21  
507616-B21  
507614-B21

869347-B21  
793701-B21  
793697-B21

537809-B21

516830-B21

**Overview**

HP 450GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive



**HPE SAS Quick Release Drives**

**SAS Quick Release SFF (2.5-inch) Enterprise (ENT) Drives**

HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) Quick Release Dual Port ENT 3yr Warranty Hard Drive

718164-B21

HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Quick-release Dual Port Enterprise 3yr Warranty Hard Drive

574879-B21

**SAS Quick Release LFF (3.5-inch) Enterprise (ENT) Drives**

HP 600GB 6G SAS 15K rpm LFF (3.5-inch) Quick-release Dual Port Enterprise 3yr Warranty Hard Drive

574758-B21

**SAS Quick Release LFF (3.5-inch) Midline (MDL) Drives**

HP 4TB 6G SAS 7.2k rpm LFF (3.5-inch) Quick-release Midline 1yr Warranty Hard Drive

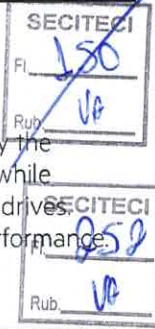
697956-B21

HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) Quick-release Dual Port Midline 1yr Warranty Hard Drive

574761-B21

**NOTE:** Refer to the appropriate server QuickSpecs for full compatibility details.

**Standard Features**



**What is SAS?**

Serial Attached SCSI (SAS) is the evolution of the SCSI interface. SAS Enterprise drives satisfy the enterprise data center requirement of scalability, performance, reliability and manageability, while providing an enterprise storage infrastructure for both enterprise SAS drives and SATA disk drives. SAS Midline drives provide the lowest dollars per gigabyte and economical reliability and performance. The SAS interface is compatible with SATA devices. This compatibility provides users with unprecedented choices for server and storage subsystem deployment.

**Drive Quality and Performance**

Today's distributed enterprise is seeing larger, more complex applications, an increase of mission-critical data moving to the server, increasing demand for transaction processing and critical server consolidation. In this environment, storage has become a critical component of the information system, significantly defining both the systems reliability and performance. This is why Hewlett Packard Enterprise drives undergo an intense qualification process that eliminates firmware and O/S incompatibilities. All drive firmware is specific to our drives and is designed to maximize both functionality and compatibility. All drives are proven to perform in the Hewlett Packard Enterprise systems for which they were designed.

While selecting the drives in our Enterprise portfolio, only those drives whose performance is suitable for an enterprise environment are selected through the Hewlett Packard Enterprise qualification process and are labeled "best-in-class." All our Enterprise drives are proven to be reliable and tuned for optimum performance in the Hewlett Packard Enterprise equipment for which they were designed. The drives in our Midline portfolio undergo a similar qualification process to ensure that you get the economical reliability and performance you need for your low workload (less than 40% I/O) environments.

**Performance**

Only those drives whose performance is suitable for an enterprise environment are selected through the Hewlett Packard Enterprise qualification process and are labeled "best-in-class." All our drives are proven to be reliable and tuned for optimum performance in the Hewlett Packard Enterprise equipment for which they were designed.

**Pre-Failure Alert**

When used in conjunction with a SMART Array Controller and Systems Insight Manager, the SMART capable firmware in HPE hard drives enables extensive fault prediction capabilities. If potential problems develop in one of the drives, the Smart Array Controller, Systems Insight Manager and/or SMART hard disk drive lets you know in advance so you can have the drive replaced, before it fails, under warranty.

**NOTE:** All drives are protected by a Pre-Failure Alert when used with a HPE Smart Array controller and Systems Insight Manager, allowing hard drives to be replaced before failure under warranty. In addition, all drives are covered by a one or three-year limited on-site warranty period for the system in which they are installed. The drive warranty is automatically uplifted when used in a server or MSA for which a Care Pack is purchased. Please see the Support Services section below for additional services.

**Integration**

Many issues customers have with third party drives are "simple" integration issues. When buying from another supplier, there is no guarantee that a drive has been correctly set for proper operation with ProLiant servers and storage systems. These incompatibilities can create problems in configuration, can rob your system of performance, or at their worst, can cause you to lose data. HPE hard drives are specifically designed and tested for flawless operation in your Hewlett Packard Enterprise equipment. The integration of hard drives in Hewlett Packard Enterprise systems means that cables, SCSI ID settings, termination, hot plug drive trays and firmware are right for your ProLiant server or storage system.

**Support Matrix**

Please see the following URL for the latest list of supported servers and enclosures:  
<http://www.hp.com/go/proliantoptions>

## Standard Features

### Warranty

SAS Enterprise hard drives have a 3 year limited warranty regardless of the warranty period for the system in which they are installed.

SAS Midline hard drives have a 1 year limited warranty regardless of the warranty period for the system in which they are installed.



## Service and Support

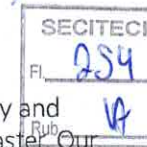
### Service and Support

**NOTE:** HPE SATA and SAS Hard drives are covered under the HPE Care Pack/ Service Contract applied to the HPE ProLiant Server. No separate HPE Care Packs need to be purchased.



#### HPE Technology Services for Industry Standard Servers and BladeSystem

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.



#### Protect your business beyond warranty with HPE Pointnext operational services

HPE Pointnext operational services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.

### Connect your devices to HPE

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77% reduction in down time, near 100% diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support.

### Warranty

ATA, SATA and MDL SAS hard drives have a maximum warranty period of one (1) year regardless of the warranty period for the system in which they are installed.

### Service Coverage

For ProLiant servers and storage systems, the service on the main product covers HPE-branded hardware options not designated by Hewlett Packard Enterprise as requiring separate coverage that are qualified for the server, are purchased at the same time or afterward, and are internal to the enclosure. The service also covers external monitors up to 22 inches in size and tower UPS products during their supported life of up to 5 years beyond sales discontinuance. These items will be covered at the same service level as the main product.

### For more information

To learn more on services for HPE ESSN Options, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Or visit: <http://www.hp.com/services/proliant> or <http://www.hp.com/services/bladeSystem>

### Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

## Technical Specifications



### SAS Hot Plug SmartDrive SFF (2.5-inch) Enterprise Drives

**Application** SAS Enterprise drives are intended for servers and storage solutions with mission critical and high work load intensive applications where 24/7 duty cycles are a requirement, such as database applications and high transaction level applications.



**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

<b>HPE 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive</b>	<b>718162-B21</b>	<b>Capacity</b>	1,200,243MB
		<b>Height</b>	0.62 in (15.6 mm)
		<b>Width</b>	2.98 in (75.7 mm)
		<b>Depth</b>	4.67 in (118.7 mm)
		<b>Interface</b>	SAS
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec
		<b>Seek Time (typical reads, including settling)</b>	Single Track 0.3 ms Average 4.6 ms Full-Stroke 8.9 ms
		<b>Physical Configuration</b>	Rotational Speed 10,000 rpm Bytes/Sector 512 Logical Blocks 2,344,225,968
		<b>Operating Temperature (System Inlet Air Temperature)</b>	50° to 95° F (10° to 35° C)

<b>HPE 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive</b>	<b>652589-B21</b>	<b>Capacity</b>	900,185MB
		<b>Height</b>	0.62 in (15.6 mm)
		<b>Width</b>	2.98 in (75.7 mm)
		<b>Depth</b>	4.67 in (118.7 mm)
		<b>Interface</b>	SAS
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec
		<b>Seek Time (typical reads, including settling)</b>	Single Track 0.21 ms Average 3.8 ms Full-Stroke 7.4 ms
		<b>Physical Configuration</b>	Rotational Speed 10,000 rpm Bytes/Sector 512 Logical Blocks 1,758,174,768
		<b>Operating Temperature (System Inlet Air Temperature)</b>	50° to 95° F (10° to 35° C)

<b>HPE 600GB 6G SAS 10K rpm SFF (2.5-inch) SC</b>	<b>652583-B21</b>	<b>Capacity</b>	600,127MB
		<b>Height</b>	0.62 in (15.6 mm)

## Technical Specifications

### Enterprise 3yr Warranty Hard Drive

<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.3 ms
	Average	4.0 ms
	Full-Stroke	8.0 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,172,123,568
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	



### HPE 1.2TB 6G SAS 10K 10,000 rpm SFF (2.5-inch) Quick Release Dual Port ENT 3yr Warranty Hard Drive

718164-B21

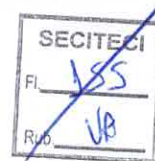
<b>Capacity</b>	1,200,243MB	
<b>Height</b>	0.740 in (18.8 mm)	
<b>Width</b>	2.909 in (73.9 mm)	
<b>Depth</b>	3.945 in (100.2 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.3ms
	Average	4.6ms
	Full-Stroke	8.9ms
	Rotational Speed	10,000rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	2,344,225,968
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

### HPE 450GB 6G SAS 10K 10,000 rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive

652572-B21

<b>Capacity</b>	450,098MB	
<b>Height</b>	0.62 in (15.6 mm)	
<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.3 ms
	Average	4.0 ms
	Full-Stroke	8.0 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	879,097,968

Technical Specifications



**Operating Temperature** 50° to 95° F (10° to 35° C)  
(System Inlet Air Temperature)

**HPE 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive**

**652564-B21**

**Capacity** 300,000MB  
**Height** 0.62 in (15.6 mm)  
**Width** 2.98 in (75.7 mm)  
**Depth** 4.67 in (118.7 mm)  
**Interface** SAS  
**Transfer Rate Synchronous (Maximum)** 6 Gb/sec  
**Seek Time** Single Track 0.3 ms  
 (typical reads, including Average 4.0 ms  
 settling) Full-Stroke 8.0 ms  
 Rotational Speed 10,000 rpm  
**Physical Configuration** Bytes/Sector 512  
 Logical Blocks 585,937,500  
**Operating Temperature** 50° to 95° F (10° to 35° C)  
(System Inlet Air Temperature)



**HPE 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive**

**781518-B21**

**Capacity** 1,200,243MB  
**Height** 0.62 in (15.6 mm)  
**Width** 2.98 in (75.7 mm)  
**Depth** 4.67 in (118.7 mm)  
**Interface** SAS  
**Transfer Rate Synchronous (Maximum)** 12 Gb/sec  
**Seek Time** Single Track 0.10 ms  
 (typical reads, including Average 3.7 ms  
 settling) Full-Stroke 7.3 ms  
 Rotational Speed 10,000 rpm  
**Physical Configuration** Bytes/Sector 512  
 Logical Blocks 2,344,225,968  
**Operating Temperature** 50° to 95° F (10° to 35° C)  
(System Inlet Air Temperature)

**HPE 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive**

**785069-B21**

**Capacity** 900,185MB  
**Height** 0.62 in (15.6 mm)  
**Width** 2.98 in (75.7 mm)  
**Depth** 4.67 in (118.7 mm)  
**Interface** SAS  
**Transfer Rate Synchronous (Maximum)** 12 Gb/sec

Technical Specifications



<b>Seek Time</b> (typical reads, including settling)	Single Track	0.10 ms
	Average	3.5 ms
	Full-Stroke	7.0 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,758,174,768
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**HPE 600GB 12G SAS  
10K rpm SFF (2.5-inch)  
SC Enterprise 3yr  
Warranty Hard Drive**

**781516-B21**

<b>Capacity</b>	600,127MB	
<b>Height</b>	0.62 in (15.6 mm)	
<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b> <b>Synchronous</b> (Maximum)	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.11 ms
	Average	3.3 ms
	Full-Stroke	6.6 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,172,123,568
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**HPE 300GB 12G SAS  
10K rpm SFF (2.5-inch)  
SC Enterprise 3yr  
Warranty Hard Drive**

**785067-B21**

<b>Capacity</b>	300,000MB	
<b>Height</b>	0.62 in (15.6 mm)	
<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b> <b>Synchronous</b> (Maximum)	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.10 ms
	Average	3.3 ms
	Full-Stroke	6.7 ms
	Rotational Speed	15,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	585,937,500
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**HPE 300GB 6G SAS 15K  
rpm SFF (2.5-inch) SC**

**652611-B21**

<b>Capacity</b>	300,000MB	
<b>Height</b>	0.62 in (15.6 mm)	

## Technical Specifications

### Enterprise 3yr Warranty Hard Drive

<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	6 Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	0.4 ms
(typical reads, including settling)	Average	2.9 ms
	Full-Stroke	5.3 ms
	Rotational Speed	15,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	585,937,500
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		



### 146GB 6G SAS 15K 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive

652605-B21

<b>Capacity</b>	146,815MB	
<b>Height</b>	0.62 in (15.6 mm)	
<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	6 Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	0.4 ms
(typical reads, including settling)	Average	3.0 ms
	Full-Stroke	7.0 ms
	Rotational Speed	15,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	286,749,488
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

### HPE 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive

759212-B21

<b>Capacity</b>	600,127MB	
<b>Height</b>	0.62 in (15.6 mm)	
<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	12 Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	0.15 ms
(typical reads, including settling)	Average	2.9 ms
	Full-Stroke	5.9 ms
	Rotational Speed	15,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,172,123,568

Technical Specifications



**Operating Temperature** 50° to 95° F (10° to 35°  
(System Inlet Air C)  
Temperature)

**HPE 450GB 12G SAS  
15K rpm SFF (2.5-inch)  
SC Enterprise 3yr  
Warranty Hard Drive**

**759210-B21**

**Capacity** 450,098MB  
**Height** 0.62 in (15.6 mm)  
**Width** 2.98 in (75.7 mm)  
**Depth** 4.67 in (118.7 mm)  
**Interface** SAS  
**Transfer Rate Synchronous (Maximum)** 12 Gb/sec  
**Seek Time** Single Track 0.15 ms  
(typical reads, including Average 2.9 ms  
settling) Full-Stroke 5.9 ms  
Rotational Speed 15,000 rpm  
**Physical Configuration** Bytes/Sector 512  
Logical Blocks 879,097,968  
**Operating Temperature** 50° to 95° F (10° to 35°  
(System Inlet Air C)  
Temperature)



**HPE 300GB 12G SAS  
15K rpm SFF (2.5-inch)  
SC Enterprise 3yr  
Warranty Hard Drive**

**759208-B21**

**Capacity** 300,000MB  
**Height** 0.62 in (15.6 mm)  
**Width** 2.98 in (75.7 mm)  
**Depth** 4.67 in (118.7 mm)  
**Interface** SAS  
**Transfer Rate Synchronous (Maximum)** 12 Gb/sec  
**Seek Time** Single Track 0.15 ms  
(typical reads, including Average 2.9 ms  
settling) Full-Stroke 5.9 ms  
Rotational Speed 15,000 rpm  
**Physical Configuration** Bytes/Sector 512  
Logical Blocks 585,937,500  
**Operating Temperature** 50° to 95° F (10° to 35°  
(System Inlet Air C)  
Temperature)

**SAS Hot Plug SmartDrive SFF (2.5-inch) Enterprise 512e Drives**

**Application** SAS 512e drives are intended for servers and storage solutions that are 4K aligned. These drives are suitable for servers and storage solutions with mission critical and high work load intensive applications where 24/7 duty cycles are a requirement, such as database applications and high transaction level applications.

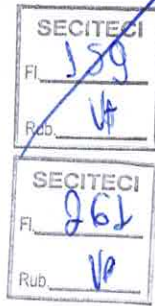
**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

Technical Specifications

**HPE 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive**

**791034-B21**

<b>Capacity</b>	1,800,360MB	
<b>Height</b>	0.62 in (15.6 mm)	
<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec	
<b>Seek Time</b>	Single Track	0.10 ms
(typical reads, including settling)	Average	3.7 ms
	Full-Stroke	7.3 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	3,516,328,368
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		



**HPE 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive**

**748387-B21**

<b>Capacity</b>	600,127MB	
<b>Height</b>	0.62 in (15.6 mm)	
<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12Gb/sec	
<b>Seek Time</b>	Single Track	0.15 ms
(typical reads, including settling)	Average	2.9 ms
	Full-Stroke	5.9 ms
	Rotational Speed	15000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,172,123,568
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

**SAS Hot Plug SmartDrive SFF (2.5-inch) Midline Drives**

**Application**

SAS Midline drives are intended for servers and storage solutions where high capacities are required. These drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

**Transfer rate**

The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

**HPE 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive**

**652749-B21**

<b>Capacity</b>	1,000,204MB
<b>Height</b>	0.62 in (15.6 mm)
<b>Width</b>	2.98 in (75.7 mm)
<b>Depth</b>	4.67 in (118.7 mm)

Technical Specifications



<b>Interface</b>	SAS	
<b>Transfer Rate</b>	6 Gb/sec	
<b>Synchronous</b> (Maximum)		
<b>Seek Time</b>	Single Track	0.7 ms
(typical reads, including settling)	Average	8.7 ms
	Full-Stroke	17.16 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,953,525,168
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

**HPE 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty rd Drive**

**652745-B21**

<b>Capacity</b>	500,107MB	
<b>Height</b>	0.62 in (15.6 mm)	
<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	6 Gb/sec	
<b>Synchronous</b> (Maximum)		
<b>Seek Time</b>	Single Track	0.7 ms
(typical reads, including settling)	Average	8.7 ms
	Full-Stroke	17.16 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	976,773,168
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

**HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive**

**832514-B21**

<b>Capacity</b>	1,000,204MB	
<b>Height</b>	0.62 in (15.6 mm)	
<b>Width</b>	2.98 in (75.7 mm)	
<b>Depth</b>	4.67 in (118.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	12 Gb/sec	
<b>Synchronous</b> (Maximum)		
<b>Seek Time</b>	Single Track	0.5 ms
(typical reads, including settling)	Average	6.8 ms
	Full-Stroke	17.00 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,953,525,168
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

Technical Specifications



SAS Hot Plug SmartDrive SFF (2.5-inch) Midline 512e Drives

**Application** SAS Midline 512e drives are intended for servers and storage solutions that are 4K aligned. These drives are intended for servers and storage solutions where high capacities are required. These drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

<b>HPE 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive</b>	<b>765466-B21</b>	<b>Capacity</b>	2,000,398MB	
		<b>Height</b>	0.62 in (15.6 mm)	
		<b>Width</b>	2.98 in (75.7 mm)	
		<b>Depth</b>	4.67 in (118.7 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.7 ms
			Average	8.7 ms
			Full-Stroke	17.16 ms
		<b>Physical Configuration</b>	Rotational Speed	7200 rpm
			Bytes/Sector	512
			Logical Blocks	1,953,525,168
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

<b>HPE 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive</b>	<b>765464-B21</b>	<b>Capacity</b>	1,000,204MB	
		<b>Height</b>	0.62 in (15.6 mm)	
		<b>Width</b>	2.98 in (75.7 mm)	
		<b>Depth</b>	4.67 in (118.7 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.7 ms
			Average	8.7 ms
			Full-Stroke	17.16 ms
		<b>Physical Configuration</b>	Rotational Speed	7200 rpm
			Bytes/Sector	512
			Logical Blocks	1,953,525,168
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

SAS Hot Plug SmartDrive LFF (3.5-inch) Enterprise Drives

**Application** SAS Enterprise drives are intended for servers and storage solutions with mission critical and high work

Technical Specifications

load intensive applications where 24/7 duty cycles are a requirement, such as database applications and high transaction level applications.

Transfer rate

The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

<b>HPE 600GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive</b>	<b>652620-B21</b>	<b>Capacity</b>	600,127MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.2 ms
			Average	3.5 ms
			Full-Stroke	6.8 ms
		<b>Physical Configuration</b>	Rotational Speed	15000 rpm
			Bytes/Sector	512
Logical Blocks	1,172,123,568			
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)			

<b>HPE 450GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive</b>	<b>652615-B21</b>	<b>Capacity</b>	450,098MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.2 ms
			Average	3.5 ms
			Full-Stroke	6.8 ms
		<b>Physical Configuration</b>	Rotational Speed	15000 rpm
			Bytes/Sector	512
Logical Blocks	879,097,968			
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)			

<b>HPE 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive</b>	<b>765424-B21</b>	<b>Capacity</b>	600,127MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	12Gb/sec	

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Technical Specifications



**Synchronous (Maximum)**

<b>Seek Time</b>	Single Track	0.15 ms
(typical reads, including settling)	Average	2.9 ms
	Full-Stroke	5.9 ms
	Rotational Speed	15000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,172,123,588
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

**HPE 450GB 12G SAS  
15K rpm LFF (3.5-inch)  
SC Converter Enterprise  
3yr Warranty Hard Drive**

**737394-B21**

<b>Capacity</b>	450,098MB	
<b>Height</b>	1.06 in (26.8 mm)	
<b>Width</b>	4.16 in (105.8 mm)	
<b>Depth</b>	6.69 in (170.0 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	12 Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	0.15 ms
(typical reads, including settling)	Average	2.9 ms
	Full-Stroke	5.9 ms
	Rotational Speed	15000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	879,097,968
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

**HPE 300GB 12G SAS  
15K rpm LFF (3.5-inch)  
SC Converter Enterprise  
3yr Warranty Hard Drive**

**737261-B21**

<b>Capacity</b>	300,000MB	
<b>Height</b>	1.06 in (26.8 mm)	
<b>Width</b>	4.16 in (105.8 mm)	
<b>Depth</b>	6.69 in (170.0 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	12 Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	15 ms
(typical reads, including settling)	Average	2.9 ms
	Full-Stroke	5.9 ms
	Rotational Speed	15000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	585,937,500
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

## Technical Specifications

### SAS Hot Plug SmartDrive LFF (3.5-inch) Midline Drives

**Application** SAS Midline drives are intended for servers and storage solutions where high capacities are required. These drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

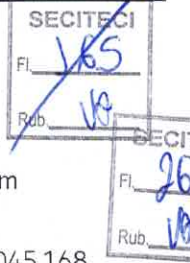
To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

<p><b>HPE 6TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive</b></p>	<p><b>846514-B21</b></p>	<p><b>Capacity</b> 6,001,175MB</p> <p><b>Height</b> 1.06 in (26.8 mm)</p> <p><b>Width</b> 4.16 in (105.8 mm)</p> <p><b>Depth</b> 6.69 in (170.0 mm)</p> <p><b>Interface</b> SAS</p> <p><b>Transfer Rate</b> 12 Gb/sec</p> <p><b>Synchronous (Maximum)</b></p> <p><b>Seek Time</b> Single Track 0.7 ms (typical reads, including settling) Average 8.5 ms Full-Stroke 15.7 ms</p> <p>Rotational Speed 7200 rpm</p> <p><b>Physical Configuration</b> Bytes/Sector 512 Logical Blocks 11,721,045,168</p> <p><b>Operating Temperature</b> 50° to 95° F (10° to 35° C) (System Inlet Air Temperature)</p>
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<p><b>HPE 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive</b></p>	<p><b>761477-B21</b></p>	<p><b>Capacity</b> 6,001,175MB</p> <p><b>Height</b> 1.06 in (26.8 mm)</p> <p><b>Width</b> 4.16 in (105.8 mm)</p> <p><b>Depth</b> 6.69 in (170.0 mm)</p> <p><b>Interface</b> SAS</p> <p><b>Transfer Rate</b> 6 Gb/sec</p> <p><b>Synchronous (Maximum)</b></p> <p><b>Seek Time</b> Single Track 0.25 ms</p>
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Rub. 16

Technical Specifications



(typical reads, including settling)	Average	8.5 ms
	Full-Stroke	22.0 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	11,721,045,168
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

<b>HPE 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive</b>	<b>695510-B21</b>	<b>Capacity</b>	4,000,787MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	6 Gb/sec	
		<b>Synchronous (Maximum)</b>		
		<b>Seek Time</b>	Single Track	0.7 ms
		(typical reads, including settling)	Average	8.5 ms
			Full-Stroke	15.7 ms
			Rotational Speed	7200 rpm
		<b>Physical Configuration</b>	Bytes/Sector	512
			Logical Blocks	7,814,037,168
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

<b>HPE 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive</b>	<b>652766-B21</b>	<b>Capacity</b>	3,000,592MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	6 Gb/sec	
		<b>Synchronous (Maximum)</b>		
		<b>Seek Time</b>	Single Track	0.7 ms
		(typical reads, including settling)	Average	8.3 ms
			Full-Stroke	15.7 ms
			Rotational Speed	7200 rpm
		<b>Physical Configuration</b>	Bytes/Sector	512
			Logical Blocks	5,860,533,168
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

<b>HPE 3TB 12G SAS 7.2K rpm LFF (3.5in) SC</b>	<b>846528-B21</b>	<b>Capacity</b>	3,000,592MB
		<b>Height</b>	1.06 in (26.8 mm)

Technical Specifications

Midline 1yr Warranty  
Hard Drive

<b>Width</b>	4.16 in (105.8 mm)	
<b>Depth</b>	6.69 in (170.0 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	6 Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	0.32 ms
(typical reads, including settling)	Average	7.45 ms
	Full-Stroke	14.2 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	5,860,533,168
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		



HPE 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive

652757-B21

<b>Capacity</b>	2,000,398MB	
<b>Height</b>	1.06 in (26.8 mm)	
<b>Width</b>	4.16 in (105.8 mm)	
<b>Depth</b>	6.69 in (170.0 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	6 Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	0.7 ms
(typical reads, including settling)	Average	8.5 ms
	Full-Stroke	18.2 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	3,907,029,168
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

HPE 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive

652753-B21

<b>Capacity</b>	1,000,204MB	
<b>Height</b>	1.06 in (26.8 mm)	
<b>Width</b>	4.16 in (105.8 mm)	
<b>Depth</b>	6.69 in (170.0 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	6 Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	0.7 ms
(typical reads, including settling)	Average	8.5 ms
	Full-Stroke	18.2 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512

Technical Specifications

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Rub. VA

			Logical Blocks	1,953,525,168
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	
<b>HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive</b>	<b>861691-B21</b>	<b>Capacity</b>	1,000,204MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	6 Gb/sec	
		<b>Synchronous (Maximum)</b>		
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.32 ms
			Average	7.45 ms
			Full-Stroke	14.2 ms
			Rotational Speed	7200 rpm
		<b>Physical Configuration</b>	Bytes/Sector	512
			Logical Blocks	1,953,525,168
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

		<b>Capacity</b>	4,000,787MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	12 Gb/sec	
		<b>Synchronous (Maximum)</b>		
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.8 ms
			Average	8.5 ms
			Full-Stroke	15.7 ms
			Rotational Speed	7200 rpm
		<b>Physical Configuration</b>	Bytes/Sector	512
			Logical Blocks	7,814,037,168
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

<b>HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive</b>	<b>818365-B21</b>	<b>Capacity</b>	2,000,398MB
		<b>Height</b>	1.06 in (26.8 mm)
		<b>Width</b>	4.16 in (105.8 mm)
		<b>Depth</b>	6.69 in (170.0 mm)
		<b>Interface</b>	SAS

**Technical Specifications**

<b>Transfer Rate</b>	12 Gb/sec	
<b>Synchronous</b> (Maximum)		
<b>Seek Time</b>	Single Track	0.8 ms
(typical reads, including settling)	Average	8.5 ms
	Full-Stroke	15.7 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	3,907,029,168
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		



**SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Drives**

**Application** SAS 512e drives are intended for servers and storage solutions that are 4K aligned. These drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

<b>E 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1 yr Warranty Hard Drive</b>	<b>819201-B21</b>	<b>Capacity</b>	8,001,563MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	12 Gb/sec	
		<b>Synchronous</b> (Maximum)		
		<b>Seek Time</b>	Single Track	0.7 ms
		(typical reads, including settling)	Average	8.5 ms
			Full-Stroke	15.7 ms
			Rotational Speed	7200 rpm
		<b>Physical Configuration</b>	Bytes/Sector	512
			Logical Blocks	15,628,053,168
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)			
(System Inlet Air Temperature)				

Technical Specifications

<b>HPE 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e 1yr Warranty Hard Drive</b>	<b>765259-B21</b>	<b>Capacity</b>	6,001,175MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec	
		<b>Seek Time</b>	Single Track	0.7 ms
		(typical reads, including settling)	Average	8.5 ms
			Full-Stroke	15.7 ms
			Rotational Speed	7200 rpm
		<b>Physical Configuration</b>	Bytes/Sector	512
			Logical Blocks	11,721,045,168
		<b>Operating Temperature</b>	50° to 95° F (10° to 35° C) (System Inlet Air Temperature)	



<b>HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e 1yr Warranty Hard Drive</b>	<b>765257-B21</b>	<b>Capacity</b>	4,000,787MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec	
		<b>Seek Time</b>	Single Track	0.7 ms
		(typical reads, including settling)	Average	8.5 ms
			Full-Stroke	15.7 ms
			Rotational Speed	7200 rpm
		<b>Physical Configuration</b>	Bytes/Sector	512
			Logical Blocks	7,814,037,168
		<b>Operating Temperature</b>	50° to 95° F (10° to 35° C) (System Inlet Air Temperature)	

SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Performance Drives

**Application** SAS 512e Performance drives are intended for servers and storage solutions that are 4K aligned with highest performance output in the Midline portfolio. These drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

Technical Specifications

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller



To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

<b>HPE 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive</b>	<b>793671-B21</b>	<b>Capacity</b>	6,001,175MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.25 ms
			Average	7.6 ms
			Full-Stroke	15 ms
		<b>Physical Configuration</b>	Rotational Speed	7200 rpm
			Bytes/Sector	512
			Logical Blocks	11,721,045,168
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

<b>HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive</b>	<b>793669-B21</b>	<b>Capacity</b>	4,000,787MB	
		<b>Height</b>	1.06 in (26.8 mm)	
		<b>Width</b>	4.16 in (105.8 mm)	
		<b>Depth</b>	6.69 in (170.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.25 ms
			Average	7.6 ms
			Full-Stroke	15 ms
		<b>Physical Configuration</b>	Rotational Speed	7200 rpm
			Bytes/Sector	512
			Logical Blocks	7,814,037,168
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Helium Drives

Application

Helium Drives are filled with Helium resulting in less power consumption. SAS 512e drives are intended for servers and storage solutions that are 4K aligned. The drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

Technical Specifications



Transfer rate

The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.



**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

**HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive**

**857644-B21**

<b>Capacity</b>	10,000,831 MB
<b>Height</b>	1.06 in (26.8 mm)
<b>Width</b>	4.16 in (105.8 mm)
<b>Depth</b>	6.69 in (170.0 mm)
<b>Interface</b>	SAS
<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec
<b>Seek Time</b>	Single Track 0.22 ms
(typical reads, including settling)	Average 8.0 ms
	Full-Stroke 16.0 ms
	Rotational Speed 7200 rpm
<b>Physical Configuration</b>	Bytes/Sector 512
	Logical Blocks 19,532,873,728
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)
(System Inlet Air Temperature)	

**HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive**

**861590-B21**

<b>Capacity</b>	8,001,563MB
<b>Height</b>	1.06 in (26.8 mm)
<b>Width</b>	4.16 in (105.8 mm)
<b>Depth</b>	6.69 in (170.0 mm)
<b>Interface</b>	SAS
<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec
<b>Seek Time</b>	Single Track 0.22 ms
(typical reads, including settling)	Average 8.0 ms
	Full-Stroke 16.0 ms
	Rotational Speed 7200 rpm
<b>Physical Configuration</b>	Bytes/Sector 512
	Logical Blocks 15,628,053,168
<b>Operating Temperature</b>	50° to 95° F (10° to 35°

Technical Specifications

		(System Inlet Air Temperature)	C)			
<b>HPE 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive</b>	<b>793699-B21</b>	<b>Capacity</b>	6,001,175MB			
		<b>Height</b>	1.06 in (26.8 mm)			
		<b>Width</b>	4.16 in (105.8 mm)			
		<b>Depth</b>	6.69 in (170.0 mm)			
		<b>Interface</b>	SAS			
		<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec			
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.25 ms		
			Average	8.5 ms		
			Full-Stroke	16.0 ms		
		<b>Physical Configuration</b>	Rotational Speed	7200 rpm		
			Bytes/Sector	512		
			Logical Blocks	11,721,045,168		
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)			



<b>HPE 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive</b>	<b>793703-B21</b>	<b>Capacity</b>	8,001,563MB			
		<b>Height</b>	1.06 in (26.8 mm)			
		<b>Width</b>	4.16 in (105.8 mm)			
		<b>Depth</b>	6.69 in (170.0 mm)			
		<b>Interface</b>	SAS			
		<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec			
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.25 ms		
			Average	8.5 ms		
			Full-Stroke	16.0 ms		
		<b>Physical Configuration</b>	Rotational Speed	7200 rpm		
			Bytes/Sector	512		
			Logical Blocks	15,628,053,168		
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)			

SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives

**Application** SAS Enterprise drives are intended for servers and storage solutions with mission critical and high work load intensive applications where 24/7 duty cycles are a requirement, such as database applications and high transaction level applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

<b>HPE 1.2TB 6G SAS 10K</b>	<b>718160-B21</b>	<b>Capacity</b>	1,200,243MB
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Technical Specifications

**rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive**

<b>Height</b>	0.63 in (16.0 mm)	
<b>Width</b>	3.1 in (78.7 mm)	
<b>Depth</b>	5.45 in (138.4 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b>	Single Track	0.3 ms
(typical reads, including settling)	Average	4.6 ms
	Full-Stroke	8.9 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	2,344,225,968
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		



**HPE 900GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive**

**619291-B21**

<b>Capacity</b>	900,185,481,216	
<b>Height</b>	0.63 in (16.0 mm)	
<b>Width</b>	3.1 in (78.7 mm)	
<b>Depth</b>	5.45 in (138.4 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b>	Single Track	0.21 ms
(typical reads, including settling)	Average	3.57 ms
	Full-Stroke	7.30 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,758,174,768
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

**HPE 600GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive**

**581286-B21**

<b>Capacity</b>	600,127,266,816	
<b>Height</b>	0.63 in (16.0 mm)	
<b>Width</b>	3.1 in (78.7 mm)	
<b>Depth</b>	5.45 in (138.4 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b>	Single Track	0.4 ms
(typical reads, including settling)	Average	4.0 ms
	Full-Stroke	8.0 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512

Technical Specifications

SECITECI  
 Fl. 124  
 Rub. VB

SECITECI  
 Fl. 226  
 Rub. VB

		Logical Blocks	1,172,123,568
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)
<b>HPE 450GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive</b>	<b>581284-B21</b>	<b>Capacity</b>	450,098,159,616
		<b>Height</b>	0.63 in (16.0 mm)
		<b>Width</b>	3.1 in (78.7 mm)
		<b>Depth</b>	5.45 in (138.4 mm)
		<b>Interface</b>	SAS
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec
		<b>Seek Time</b> (typical reads, including settling)	Single Track 0.4 ms Average 4.0 ms Full-Stroke 8.0 ms
		<b>Physical Configuration</b>	Rotational Speed 10,000 rpm Bytes/Sector 512 Logical Blocks 879,097,968
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)

<b>HPE 300GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive</b>	<b>507127-B21</b>	<b>Capacity</b>	300,000,000,000
		<b>Height</b>	0.63 in (16.0 mm)
		<b>Width</b>	3.1 in (78.7 mm)
		<b>Depth</b>	5.45 in (138.4 mm)
		<b>Interface</b>	SAS
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec
		<b>Seek Time</b> (typical reads, including settling)	Single Track 0.20 ms Average 4.0 ms Full-Stroke 7.45 ms
		<b>Physical Configuration</b>	Rotational Speed 10,000 rpm Bytes/Sector 512 Logical Blocks 585,937,500
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)

<b>HPE 1.2TB 12G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive</b>	<b>785079-B21</b>	<b>Capacity</b>	1,200,243MB
		<b>Height</b>	0.63 in (16.0 mm)
		<b>Width</b>	3.1 in (78.7 mm)
		<b>Depth</b>	5.45 in (138.4 mm)
		<b>Interface</b>	SAS
		<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec

Technical Specifications

SECITECI  
Fl. 125  
Rub. 18  
SECITECI  
Fl. 279  
Rub. 10

<b>Seek Time</b> (typical reads, including settling)	Single Track	0.10 ms
	Average	3.7 ms
	Full-Stroke	7.3 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	2,344,225,968
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**HPE 900GB 12G SAS  
10K rpm SFF (2.5-inch)  
Enterprise 3yr Warranty  
Hard Drive**

**785075-B21**

<b>Capacity</b>	900,185MB	
<b>Height</b>	0.63 in (16.0 mm)	
<b>Width</b>	3.1 in (78.7 mm)	
<b>Depth</b>	5.45 in (138.4 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b> <b>Synchronous</b> (Maximum)	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.10 ms
	Average	3.5 ms
	Full-Stroke	7.0 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,758,174,768
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**HPE 600GB 12G SAS  
10K rpm SFF (2.5-inch)  
Enterprise 3yr Warranty  
Hard Drive**

**785073-B21**

<b>Capacity</b>	600,127MB	
<b>Height</b>	0.63 in (16.0 mm)	
<b>Width</b>	3.1 in (78.7 mm)	
<b>Depth</b>	5.45 in (138.4 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b> <b>Synchronous</b> (Maximum)	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.11 ms
	Average	3.3 ms
	Full-Stroke	6.6 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,172,123,568
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**HPE 300GB 12G SAS  
10K rpm SFF (2.5-inch)**

**785071-B21**

<b>Capacity</b>	300,000MB
<b>Height</b>	0.63 in (16.0 mm)

Technical Specifications

Enterprise 3yr Warranty  
Hard Drive

<b>Width</b>	3.1 in (78.7 mm)	
<b>Depth</b>	5.45 in (138.4 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.10 ms
	Average	3.3 ms
	Full-Stroke	6.7 ms
	Rotational Speed	10,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	585,937,500
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	



HPE 300GB 6G SAS 15K  
rpm SFF (2.5-inch) Hot  
Plug Enterprise 3 yr  
Warranty Hard Drive

627117-B21

<b>Capacity</b>	300,000,000,000	
<b>Height</b>	0.63 in (16.0 mm)	
<b>Width</b>	3.1 in (78.7 mm)	
<b>Depth</b>	5.45 in (138.4 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.40 ms
	Average	2.9 ms
	Full-Stroke	5.30 ms
	Rotational Speed	15,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	585,937,500
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

HPE 146GB 6G SAS 15K  
rpm SFF (2.5-inch) Dual  
Port Enterprise 3yr  
Warranty Hard Drive

512547-B21

<b>Capacity</b>	146,815,737,856	
<b>Height</b>	0.63 in (16.0 mm)	
<b>Width</b>	3.1 in (78.7 mm)	
<b>Depth</b>	5.45 in (138.4 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.4 ms
	Average	3.0 ms
	Full-Stroke	7.0 ms
	Rotational Speed	15,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	286,749,488

Technical Specifications



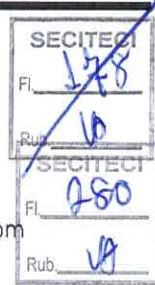
<b>HPE 600GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive</b>	<b>785103-B21</b>	<b>Operating Temperature</b> 50° to 95° F (10° to 35° (System Inlet Air C Temperature)																												
		<table border="0"> <tr> <td><b>Capacity</b></td> <td>600,127MB</td> </tr> <tr> <td><b>Height</b></td> <td>0.63 in (16.0 mm)</td> </tr> <tr> <td><b>Width</b></td> <td>3.1 in (78.7 mm)</td> </tr> <tr> <td><b>Depth</b></td> <td>5.45 in (138.4 mm)</td> </tr> <tr> <td><b>Interface</b></td> <td>SAS</td> </tr> <tr> <td><b>Transfer Rate</b></td> <td>12 Gb/sec</td> </tr> <tr> <td><b>Synchronous (Maximum)</b></td> <td></td> </tr> <tr> <td><b>Seek Time</b></td> <td>Single Track 0.15 ms</td> </tr> <tr> <td>(typical reads, including settling)</td> <td>Average 2.9 ms</td> </tr> <tr> <td></td> <td>Full-Stroke 5.9 ms</td> </tr> <tr> <td></td> <td>Rotational Speed 15,000 rpm</td> </tr> <tr> <td><b>Physical Configuration</b></td> <td>Bytes/Sector 512</td> </tr> <tr> <td></td> <td>Logical Blocks 1,172,123,568</td> </tr> <tr> <td><b>Operating Temperature</b></td> <td>50° to 95° F (10° to 35° (System Inlet Air C Temperature)</td> </tr> </table>	<b>Capacity</b>	600,127MB	<b>Height</b>	0.63 in (16.0 mm)	<b>Width</b>	3.1 in (78.7 mm)	<b>Depth</b>	5.45 in (138.4 mm)	<b>Interface</b>	SAS	<b>Transfer Rate</b>	12 Gb/sec	<b>Synchronous (Maximum)</b>		<b>Seek Time</b>	Single Track 0.15 ms	(typical reads, including settling)	Average 2.9 ms		Full-Stroke 5.9 ms		Rotational Speed 15,000 rpm	<b>Physical Configuration</b>	Bytes/Sector 512		Logical Blocks 1,172,123,568	<b>Operating Temperature</b>	50° to 95° F (10° to 35° (System Inlet Air C Temperature)
<b>Capacity</b>	600,127MB																													
<b>Height</b>	0.63 in (16.0 mm)																													
<b>Width</b>	3.1 in (78.7 mm)																													
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	Rotational Speed 15,000 rpm																													
<b>Physical Configuration</b>	Bytes/Sector 512																													
	Logical Blocks 1,172,123,568																													
<b>Operating Temperature</b>	50° to 95° F (10° to 35° (System Inlet Air C Temperature)																													

<b>HPE 450GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive</b>	<b>785101-B21</b>	<table border="0"> <tr> <td><b>Capacity</b></td> <td>450,098MB</td> </tr> <tr> <td><b>Height</b></td> <td>0.63 in (16.0 mm)</td> </tr> <tr> <td><b>Width</b></td> <td>3.1 in (78.7 mm)</td> </tr> <tr> <td><b>Depth</b></td> <td>5.45 in (138.4 mm)</td> </tr> <tr> <td><b>Interface</b></td> <td>SAS</td> </tr> <tr> <td><b>Transfer Rate</b></td> <td>12 Gb/sec</td> </tr> <tr> <td><b>Synchronous (Maximum)</b></td> <td></td> </tr> <tr> <td><b>Seek Time</b></td> <td>Single Track 0.15 ms</td> </tr> <tr> <td>(typical reads, including settling)</td> <td>Average 2.9 ms</td> </tr> <tr> <td></td> <td>Full-Stroke 5.9 ms</td> </tr> <tr> <td></td> <td>Rotational Speed 15,000 rpm</td> </tr> <tr> <td><b>Physical Configuration</b></td> <td>Bytes/Sector 512</td> </tr> <tr> <td></td> <td>Logical Blocks 879,097,968</td> </tr> <tr> <td><b>Operating Temperature</b></td> <td>50° to 95° F (10° to 35° (System Inlet Air C Temperature)</td> </tr> </table>	<b>Capacity</b>	450,098MB	<b>Height</b>	0.63 in (16.0 mm)	<b>Width</b>	3.1 in (78.7 mm)	<b>Depth</b>	5.45 in (138.4 mm)	<b>Interface</b>	SAS	<b>Transfer Rate</b>	12 Gb/sec	<b>Synchronous (Maximum)</b>		<b>Seek Time</b>	Single Track 0.15 ms	(typical reads, including settling)	Average 2.9 ms		Full-Stroke 5.9 ms		Rotational Speed 15,000 rpm	<b>Physical Configuration</b>	Bytes/Sector 512		Logical Blocks 879,097,968	<b>Operating Temperature</b>	50° to 95° F (10° to 35° (System Inlet Air C Temperature)
<b>Capacity</b>	450,098MB																													
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<b>Width</b>	3.1 in (78.7 mm)																													
<b>Depth</b>	5.45 in (138.4 mm)																													
<b>Interface</b>	SAS																													
<b>Transfer Rate</b>	12 Gb/sec																													
<b>Synchronous (Maximum)</b>																														
<b>Seek Time</b>	Single Track 0.15 ms																													
(typical reads, including settling)	Average 2.9 ms																													
	Full-Stroke 5.9 ms																													
	Rotational Speed 15,000 rpm																													
<b>Physical Configuration</b>	Bytes/Sector 512																													
	Logical Blocks 879,097,968																													
<b>Operating Temperature</b>	50° to 95° F (10° to 35° (System Inlet Air C Temperature)																													

<b>HPE 300GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive</b>	<b>785099-B21</b>	<table border="0"> <tr> <td><b>Capacity</b></td> <td>300,000MB</td> </tr> <tr> <td><b>Height</b></td> <td>0.63 in (16.0 mm)</td> </tr> <tr> <td><b>Width</b></td> <td>3.1 in (78.7 mm)</td> </tr> <tr> <td><b>Depth</b></td> <td>5.45 in (138.4 mm)</td> </tr> <tr> <td><b>Interface</b></td> <td>SAS</td> </tr> <tr> <td><b>Transfer Rate</b></td> <td>12 Gb/sec</td> </tr> <tr> <td><b>Synchronous (Maximum)</b></td> <td></td> </tr> </table>	<b>Capacity</b>	300,000MB	<b>Height</b>	0.63 in (16.0 mm)	<b>Width</b>	3.1 in (78.7 mm)	<b>Depth</b>	5.45 in (138.4 mm)	<b>Interface</b>	SAS	<b>Transfer Rate</b>	12 Gb/sec	<b>Synchronous (Maximum)</b>	
<b>Capacity</b>	300,000MB															
<b>Height</b>	0.63 in (16.0 mm)															
<b>Width</b>	3.1 in (78.7 mm)															
<b>Depth</b>	5.45 in (138.4 mm)															
<b>Interface</b>	SAS															
<b>Transfer Rate</b>	12 Gb/sec															
<b>Synchronous (Maximum)</b>																

Technical Specifications

<b>Seek Time</b> (typical reads, including settling)	Single Track	0.15 ms
	Average	2.9 ms
	Full-Stroke	5.9 ms
	Rotational Speed	15,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	585,937,500
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	



SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives

**Application** SAS Enterprise drives are intended for servers and storage solutions with mission critical and high work load intensive applications where 24/7 duty cycles are a requirement, such as database applications and high transaction level applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

<b>HPE 600GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive</b>	<b>516828-B21</b>	<b>Capacity</b>	600,127,266,816		
		<b>Height</b>	1.04 in (26.4 mm)		
		<b>Width</b>	4.36 in (110.7 mm)		
		<b>Depth</b>	7.43 in (188.7 mm)		
		<b>Interface</b>	SAS		
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec		
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.2ms	
			Average	3.5ms	
			Full-Stroke	6.8ms	
			Rotational Speed	15,000rpm	
		<b>Physical Configuration</b>	Bytes/Sector	512	
			Logical Blocks	1,172,123,568	
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)		

<b>HPE 450GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive</b>	<b>516816-B21</b>	<b>Capacity</b>	450,098,159,616		
		<b>Height</b>	1.04 in (26.4 mm)		
		<b>Width</b>	4.36 in (110.7 mm)		
		<b>Depth</b>	7.43 in (188.7 mm)		
		<b>Interface</b>	SAS		
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec		
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.2ms	
			Average	3.5ms	
			Full-Stroke	6.8ms	
			Rotational Speed	15,000rpm	

Technical Specifications

SECITEC  
Fl. 129  
RUP. WA

SECITEC  
Fl. 282  
RUP. WA

<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	879,097,968
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**HPE 600GB 12G SAS  
15K rpm LFF (3.5-inch)  
CC Enterprise 3yr  
Warranty Hard Drive**

**737396-B21**

<b>Capacity</b>	600,127MB	
<b>Height</b>	1.04 in (26.4 mm)	
<b>Width</b>	4.36 in (110.7 mm)	
<b>Depth</b>	7.43 in (188.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b> <b>Synchronous</b> (Maximum)	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.15ms
	Average	2.9ms
	Full-Stroke	5.9ms
	Rotational Speed	15,000rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,172,123,568
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**HPE 450GB 12G SAS  
15K rpm LFF (3.5-inch)  
CC Enterprise 3yr  
Warranty Hard Drive**

**737392-B21**

<b>Capacity</b>	450,098MB	
<b>Height</b>	1.04 in (26.4 mm)	
<b>Width</b>	4.36 in (110.7 mm)	
<b>Depth</b>	7.43 in (188.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b> <b>Synchronous</b> (Maximum)	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.15 ms
	Average	2.9 ms
	Full-Stroke	5.9 ms
	Rotational Speed	15,000rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	879,097,968
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**HPE 300GB 12G SAS  
15K rpm LFF (3.5-inch)  
CC Enterprise 3yr  
Warranty Hard Drive**

**737390-B21**

<b>Capacity</b>	300,000MB
<b>Height</b>	1.04 in (26.4 mm)
<b>Width</b>	4.36 in (110.7 mm)
<b>Depth</b>	7.43 in (188.7 mm)
<b>Interface</b>	SAS

Technical Specifications

<b>Transfer Rate</b>	12 Gb/sec	
<b>Synchronous</b> (Maximum)		
<b>Seek Time</b>	Single Track	0.15 ms
(typical reads, including settling)	Average	2.9 ms
	Full-Stroke	5.9 ms
	Rotational Speed	15,000rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	585,937,500
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		



SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives

**Application** SAS Midline drives are intended for servers and storage solutions where high capacities are required. These drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

<b>HPE 1TB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive</b>	<b>605835-B21</b>	<b>Capacity</b>	1,000,204,886,016	
		<b>Height</b>	0.63 in (16.0 mm)	
		<b>Width</b>	3.1 in (78.7 mm)	
		<b>Depth</b>	5.45 in (138.4 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	6 Gb/sec	
		<b>Synchronous</b> (Maximum)		
		<b>Seek Time</b>	Single Track	0.5 ms
		(typical reads, including settling)	Average	8.2ms
			Full-Stroke	17.55 ms
			Rotational Speed	7,200 rpm
	<b>Physical Configuration</b>	Bytes/Sector	512	
		Logical Blocks	976,773,168	
	<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)		
	(System Inlet Air Temperature)			

<b>HPE 500GB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive</b>	<b>507610-B21</b>	<b>Capacity</b>	500,107,862,016	
		<b>Height</b>	0.63 in (16.0 mm)	
		<b>Width</b>	3.1 in (78.7 mm)	
		<b>Depth</b>	5.45 in (138.4 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	6 Gb/sec	
		<b>Synchronous</b> (Maximum)		
		<b>Seek Time</b>	Single Track	0.5 ms
		(typical reads, including settling)	Average	8.2ms

Technical Specifications



settling)	Full-Stroke	17.55 ms
	Rotational Speed	7,200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	976,773,168
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives

**Application** SAS Midline drives are intended for servers and storage solutions where high capacities are required. These drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

HPE 6TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive

782669-B21

<b>Capacity</b>	6001175 MB
<b>Height</b>	1.04 in (26.4 mm)
<b>Width</b>	4.36 in (110.7 mm)
<b>Depth</b>	7.43 in (188.7 mm)
<b>Interface</b>	SAS
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec
<b>Seek Time (typical reads, including settling)</b>	Single Track 0.25 ms
	Average 8.5 ms
	Full-Stroke 22.0 ms
	Rotational Speed 7,200 rpm
<b>Physical Configuration</b>	Bytes/Sector 512
	Logical Blocks 11,721,045,168
<b>Operating Temperature (System Inlet Air Temperature)</b>	50° to 95° F (10° to 35° C)

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

Technical Specifications



**HPE 4TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive**

**693689-B21**

<b>Capacity</b>	4,000,787MB	
<b>Height</b>	1.04 in (26.4 mm)	
<b>Width</b>	4.36 in (110.7 mm)	
<b>Depth</b>	7.43 in (188.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.7 ms
	Average	8.5 ms
	Full-Stroke	15.7 ms
<b>Physical Configuration</b>	Rotational Speed	7,200 rpm
	Bytes/Sector	512
	Logical Blocks	7,814,037,168
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

**HPE 3TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive**

**625031-B21**

<b>Capacity</b>	3,000,592,982,016	
<b>Height</b>	1.04 in (26.4 mm)	
<b>Width</b>	4.36 in (110.7 mm)	
<b>Depth</b>	7.43 in (188.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.5 ms
	Average	<8.1 ms
	Full-Stroke	15.5 ms
<b>Physical Configuration</b>	Rotational Speed	7,200 rpm
	Bytes/Sector	512
	Logical Blocks	5,860,533,168
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array

Technical Specifications

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Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

<b>HPE 2TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline 1yr Warranty Hard Drive</b>	<b>507616-B21</b>	<b>Capacity</b>	2,000,398,934,016	
		<b>Height</b>	1.04 in (26.4 mm)	
		<b>Width</b>	4.36 in (110.7 mm)	
		<b>Depth</b>	7.43 in (188.7 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.5 ms
			Average	8.5 ms
			Full-Stroke	16.2 ms
		<b>Physical Configuration</b>	Rotational Speed	7,200 rpm
			Bytes/Sector	512
		<b>Operating Temperature</b> (System Inlet Air Temperature)	Logical Blocks	3,907,029,168
			50° to 95° F (10° to 35° C)	

<b>HPE 1TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline 1yr Warranty Hard Drive</b>	<b>507614-B21</b>	<b>Capacity</b>	1,000,204,886,016	
		<b>Height</b>	1.04 in (26.4 mm)	
		<b>Width</b>	4.36 in (110.7 mm)	
		<b>Depth</b>	7.43 in (188.7 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.5 ms
			Average	8.5 ms
			Full-Stroke	16.2 ms
		<b>Physical Configuration</b>	Rotational Speed	7,200 rpm
			Bytes/Sector	512
		<b>Operating Temperature</b> (System Inlet Air Temperature)	Logical Blocks	1,953,525,168
			50° to 95° F (10° to 35° C)	

SAS Hot Plug LFF (3.5-inch) Midline (MDL) 512e Helium Drives

Technical Specifications

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**Application** SAS Midline drives are intended for servers and storage solutions where high capacities are required. These drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

**HPE 6TB 12G SAS 7.2K rpm LFF (3.5-inch) 512e Helium 1yr Warranty Hard Drive**

**793697-B21**

<b>Capacity</b>	6,001,175MB	
<b>Height</b>	1.04 in (26.4 mm)	
<b>Width</b>	4.36 in (110.7 mm)	
<b>Depth</b>	7.43 in (188.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.25 ms
	Average	8.5 ms
	Full-Stroke	16.0 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	11,721,045,168
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

**HPE 8TB 12G SAS 7.2K rpm LFF (3.5-inch) 512e Helium 1yr Warranty Hard Drive**

**793701-B21**

<b>Capacity</b>	8,001,563MB	
<b>Height</b>	1.04 in (26.4 mm)	
<b>Width</b>	4.36 in (110.7 mm)	
<b>Depth</b>	7.43 in (188.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.25 ms
	Average	8.5 ms
	Full-Stroke	16.0 ms
	Rotational Speed	7200 rpm

Technical Specifications



<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	15,628,053,168
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

**HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e Midline 1yr Warranty Hard Drive**

**869347-B21**

<b>Capacity</b>	10,000,831 MB	
<b>Height</b>	1.04 in (26.4 mm)	
<b>Width</b>	4.36 in (110.7 mm)	
<b>Depth</b>	7.43 in (188.7 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12 Gb/sec	
<b>Seek Time</b> (typical reads, including settling)	Single Track	0.22 ms
	Average	8.0 ms
	Full-Stroke	16.0 ms
	Rotational Speed	7200 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	19,532,873,728
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)	

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

SAS Non-Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives



## Technical Specifications

**Application** SAS Enterprise drives are intended for servers and storage solutions with mission critical and high work load intensive applications where 24/7 duty cycles are a requirement, such as database applications and high transaction level applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

<b>HPE 300GB 6G SAS 10K rpm SFF (2.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive</b>	<b>537809-B21</b>	<b>Capacity</b>	300,000,000,000	
		<b>Height</b>	0.591 in (15.00 mm)	
		<b>Width</b>	2.750 in (69.85 mm)	
		<b>Depth</b>	3.937 in (100.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6 Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.20 ms
			Average	4.0 ms
			Full-Stroke	7.45 ms
		<b>Physical Configuration</b>	Rotational Speed	10,000 rpm
			Bytes/Sector	512
Logical Blocks	585,937,500			
<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)			

## SAS Non-Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives

**Application** SAS Enterprise drives are intended for servers and storage solutions with mission critical and high work load intensive applications where 24/7 duty cycles are a requirement, such as database applications and high transaction level applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

<b>HPE 600GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive</b>	<b>516830-B21</b>	<b>Capacity</b>	600,127,266,816	
		<b>Height</b>	1.028 in (26.1 mm)	
		<b>Width</b>	4.0 in (101.6 mm)	
		<b>Depth</b>	5.787 in (147.0 mm)	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gb/sec	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.2ms
			Average	3.5ms
			Full-Stroke	6.8ms
		<b>Physical Configuration</b>	Rotational Speed	15,000 rpm
			Bytes/Sector	512
Logical Blocks	1,172,123,568			

Technical Specifications



**Operating Temperature** 50° to 95° F (10° to 35°  
(System Inlet Air C)  
Temperature)

**HPE 450GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive**

**516826-B21**

**Capacity** 450,098,159,616  
**Height** 1.028 in (26.1 mm)  
**Width** 4.0 in (101.6 mm)  
**Depth** 5.787 in (147.0 mm)  
**Interface** SAS  
**Transfer Rate Synchronous (Maximum)** 6Gb/sec  
**Seek Time** Single Track 0.2ms  
 (typical reads, including Average 3.5ms  
 settling) Full-Stroke 6.8ms  
 Rotational Speed 15,000 rpm  
**Physical Configuration** Bytes/Sector 512  
 Logical Blocks 879,097,968  
**Operating Temperature** 50° to 95° F (10° to 35°  
(System Inlet Air C)  
Temperature)

SAS Quick Release SFF (2.5-inch) Enterprise (ENT) Drives

**Application** SAS Enterprise drives are intended for servers and storage solutions with mission critical and high work load intensive applications where 24/7 duty cycles are a requirement, such as database applications and high transaction level applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

**HPE 1.2TB 6G SAS 10K rpm SFF (2.5-inch) Quick-release Dual Port ENT 3y Warranty Hard Drive**

**697572-B21**

**Capacity** 1,200,243MB  
**Height** 0.740 in (18.8 mm)  
**Width** 2.909 in (73.9 mm)  
**Depth** 3.945 in (100.2 mm)  
**Interface** SAS  
**Transfer Rate Synchronous (Maximum)** 6Gb/sec  
**Seek Time** Single Track 4.6ms  
 (typical reads, including Average 8.9ms  
 settling) Full-Stroke 8.0ms  
 Rotational Speed 10,000rpm  
**Physical Configuration** Bytes/Sector 512  
 Logical Blocks 2,344,225,968  
**Operating Temperature** 50° to 95° F (10° to 35°  
(System Inlet Air C)  
Temperature)

**Technical Specifications**



**HPE 300 GB 6G SAS 10K SFF (2.5-inch) Quick-release Dual Port ENT 3y Warranty Hard Drive**

**574879-B21**

<b>Capacity</b>	300,000,000,000	
<b>Height</b>	0.740 in (18.8 mm)	
<b>Width</b>	2.909 in (73.9 mm)	
<b>Depth</b>	3.945 in (100.2 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	6Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	0.3ms
(typical reads, including settling)	Average	4.0ms
	Full-Stroke	8.0ms
	Rotational Speed	10,000rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	585,937,500
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

**SAS Quick Release LFF (3.5-inch) Enterprise (ENT) Drives**

**Application** SAS Enterprise drives are intended for servers and storage solutions with mission critical and high work load intensive applications where 24/7 duty cycles are a requirement, such as database applications and high transaction level applications.

**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

**HPE 600 GB 6G SAS 15K LFF (3.5-inch) Quick-release Dual Port ENT 3y Warranty Hard Drive**

**574758-B21**

<b>Capacity</b>	600,127,266,816	
<b>Height</b>	1.165 in (29.6 mm)	
<b>Width</b>	4.157 in (105.6 mm)	
<b>Depth</b>	5.787 in (147.0 mm)	
<b>Interface</b>	SAS	
<b>Transfer Rate</b>	6Gb/sec	
<b>Synchronous (Maximum)</b>		
<b>Seek Time</b>	Single Track	0.2ms
(typical reads, including settling)	Average	3.5ms
	Full-Stroke	6.8ms
	Rotational Speed	15,000 rpm
<b>Physical Configuration</b>	Bytes/Sector	512
	Logical Blocks	1,172,123,568
<b>Operating Temperature</b>	50° to 95° F (10° to 35° C)	
(System Inlet Air Temperature)		

**SAS Quick Release LFF (3.5-inch) Midline (MDL) Drives**

**Application** SAS Midline drives are intended for servers and storage solutions where high capacities are required. These drives have moderately-priced reliability and performance for non-mission critical, low workload applications, such as disk backup, archival, and reference applications.

Technical Specifications

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**Transfer rate** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

<b>HPE 4TB 6G SAS 7.2k rpm LFF (3.5-inch) Quick-release Dual Port MDL 1y Warranty Hard Drive</b>	<b>697956-B21</b>	<b>Capacity</b>	4,000,787MB		
		<b>Height</b>	1.165 in (29.6 mm)		
		<b>Width</b>	4.157 in (105.6 mm)		
		<b>Depth</b>	5.787 in (147.0 mm)		
		<b>Interface</b>	SAS		
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gb/sec		
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.7 ms	
			Average	8.5 ms	
			Full-Stroke	15.7 ms	
			Rotational Speed	7,200 rpm	
		<b>Physical Configuration</b>	Bytes/Sector	512	
			Logical Blocks	7,814,037,168	
		<b>Operating Temperature</b> (System Inlet Air Temperature)	50° to 95° F (10° to 35° C)		

**NOTE:** To support HPE hard drives exceeding 2.2 TB, HPE Smart Array Firmware version 5.0 or later is required for the following controllers:

- HPE Smart Array P212 Controller
- HPE Smart Array P410 Controller
- HPE Smart Array P411 Controller
- HPE Smart Array P711m Controller
- HPE Smart Array P812 Controller

To use hard drives exceeding 2.2 TB, you must create a boot volume using offline ACU version 8.75 or later. HPE Smart Array controllers do not support boot volumes exceeding 2.2 TB.

<b>HPE 2TB 6G SAS 7.2K rpm LFF (3.5-inch) Quick-release Dual Port MDL 1yr Warranty Hard Drive</b>	<b>574761-B21</b>	<b>Capacity</b>	2,000,398,934,016		
		<b>Height</b>	1.165 in (29.6 mm)		
		<b>Width</b>	4.157 in (105.6 mm)		
		<b>Depth</b>	5.787 in (147.0 mm)		
		<b>Interface</b>	SAS		
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gb/sec		
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.7 ms	
			Average	8.5 ms	
			Full-Stroke	18.2 ms	
			Rotational Speed	7,200 rpm	
		<b>Physical Configuration</b>	Bytes/Sector	512	
			Logical Blocks	3,907,029,168	

Technical Specifications



**Operating Temperature** 50° to 95° F (10° to 35°  
 (System Inlet Air C)  
 Temperature)

**Environment-friendly  
 Products and Approach**

**End-of-life Management  
 and Recycling**

Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

[http://www8.hp.com/us/en/hpe/hp-information/livingprogress/environmentalprogress/product-recycling.html#.V-IPA\\_krKiM](http://www8.hp.com/us/en/hpe/hp-information/livingprogress/environmentalprogress/product-recycling.html#.V-IPA_krKiM)

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

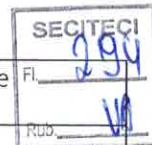
[http://www8.hp.com/us/en/hpe/hp-information/livingprogress/environmentalprogress/product-recycling.html#.V-IPA\\_krKiM](http://www8.hp.com/us/en/hpe/hp-information/livingprogress/environmentalprogress/product-recycling.html#.V-IPA_krKiM)

Summary of Changes



Date	Version History	Action	Description of Change
23-Oct-2017	From Version 55 to 56	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
28-Nov-2016	From Version 54 to 55	Added	Added new HDD offering.
		Changed	Overview, Models, and Technical Specifications were revised.
		Removed	Obsolete hard disk drives were removed from the QuickSpecs.
26-Sep-2016	From Version 53 to 54	Added	Added new SAS offering.  HPE 3TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive  HPE 1TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive
		Added	HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive was added to the QuickSpecs.
16-Feb-2016	From Version 51 to 52	Added	Added new SKUs 832514-B21, 818367-B21, and 818365-B21 to the Models and Technical Specifications sections.
		Changed	What's New changed to: HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive  HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive  HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive
28-Sep-2015	From Version 50 to 51	Changed	12G SAS drives indicated transfer rate as 6Gb/sec. Changed transfer rate to 12Gb/sec.
01-Jun-2015	From Version 49 to 50	Added	Updated What's New with the following information:  HPE 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive  HPE 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive  HPE 6TB 12G SAS 7.2K rpm LFF (3.5-inch) 512e Helium 1yr Warranty Hard Drive  HPE 8TB 12G SAS 7.2K rpm LFF (3.5-inch) 512e Helium 1yr Warranty Hard Drive  HPE 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive  HPE 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive  Added part numbers 791034-B21, 748387-B21, 793703-B21, 793699-B21, 793701-B21, and 793697-B21 to the Models and Technical Specifications sections.
		Changed	Service and Support section was revised.

Summary of Changes



		Removed	Obsolete SKUs 516814-B21 and 516824-B21 were removed.
30-Mar-2015	From Version 48 to 49	Added	Added new SAS Hard Drives offering.
		Changed	Overview and Technical Specifications were revised.
09-Feb-2015	From Version 47 to 48	Added	Updated What's New with the following information:  HPE 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive  HPE 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive  HPE 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive  HPE 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive  HPE 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive  HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive  HPE 1.2TB 12G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive  HPE 900GB 12G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive  HPE 600GB 12G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive  HPE 300GB 12G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive  Added part numbers 781518-B21, 785069-B21, 781516-B21, 785067-B21, 765259-B21, 765257-B21, 785079-B21, 785075-B21, 785073-B21, and 785071-B21 to the Models and Technical Specifications sections.
28-Aug-2014	From Version 46 to 47	Changed	Updated What's New with the following information:  HPE 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive  HPE 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive  HPE 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive  HPE 300GB 12G SAS 15K rpm LFF (3.5-inch) CC Enterprise 3yr Warranty Hard Drive

Summary of Changes

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			<p>HPE 450GB 12G SAS 15K rpm LFF (3.5-inch) CC Enterprise 3yr Warranty Hard Drive</p> <p>HPE 600GB 12G SAS 15K rpm LFF (3.5-inch) CC Enterprise 3yr Warranty Hard Drive</p> <p>HPE 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive</p> <p>HPE 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive</p> <p>HPE 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive</p> <p>HPE 300GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive</p> <p>HPE 450GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive</p> <p>HPE 600GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive</p> <p>HPE 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive</p> <p>HPE 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive</p> <p>HPE 6TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive</p> <p>Updated Models throughout the QuickSpecs.</p> <p>Changes made in the Technical Specifications section.</p>
18-Aug-2014	From Version 45 to 46	Changed Removed	<p>Models section was revised.</p> <p>Removed HPE 600GB 6G SAS 10K rpm SFF (2.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive and HPE 300GB 6G SAS 15K rpm LFF (3.5-inch) Quick-release Dual Port Enterprise 3yr Warranty Hard Drive from Models and Technical Specifications sections.</p>
07-Mar-2014	From Version 44 to 45	Changed	Changes were made throughout.
09-Dec-2013	From Version 43 to 44	Added	<p>Updated What's New with the following information:</p> <p>HPE 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive</p> <p>Added part numbers 718162-B21, 718160-B21, and 718164-B21 to the Models and Technical Specifications sections.</p>
13-May-2013	From Version 42 to 43	Added	<p>Updated What's New with the following information:</p> <p>HPE 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr</p>

Summary of Changes

SECITECI  
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1yr. VB

			<p>Warranty Hard Drive</p> <p>HPE 4TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive</p> <p>HPE 4TB 6G SAS 7.2k LFF (3.5-inch) Quick-release Dual Port MDL 1y Warranty Hard Drive</p> <p>Added part numbers 695510-B21, 693689-B21, and 697956-B21 to the Models and Technical Specifications sections.</p>
19-Apr-2013	From Version 41 to 42	Changed	Changes made to the NOTES in the Models section.
12-Apr-2013	From Version 40 to 41	Added	Added new NOTES to the Models section.
19-Feb-2013	From Version 39 to 40	Added	Added part numbers 697574-B21, 693648-B21, and 697572-B21 to the Models and Technical Specifications sections.
26-Nov-2012	From Version 38 to 39	Added	Added missing sub-header in Overview section.
07-Nov-2012	From Version 37 to 38	Added	Added missing sub-header in Overview section.
03-Aug-2012	From Version 36 to 37	Removed	Removed HPE 72GB GG SAS 15K rpm Drive from Model node. Removed HPE 72GB GG SAS 15K rpm Drive node from Technical Specifications section.
27-Jul-2012	From Version 35 to 36	Changed	Change made in Technical Specifications section.
11-May-2012	From Version 34 to 35	Changed	Changed "Smart Drive" to "SmartDrive" in the Models section.
06-Mar-2012	From Version 33 to 34	Changed	Models was updated. Note that the title has changed.
14-Nov-2011	From Version 32 to 33	Added	HPE 300GB 6G SAS 15K rpm SFF Hot Plug Enterprise Drive was added.
04-Aug-2011	From Version 31 to 32	Changed	Description changes made in the Hard Drives section.
20-Jun-2011	From Version 29 to 31	Changed	Service and Support was completely revised and HPE 3TB 6G SAS 7.2K rpm LFF Dual Port Midline Hard Drive was added.
09-May-2011	From Version 28 to 29	Added	Added new SKU to the Models and Technical Specifications sections. Updated the Service and Support section.
05-Apr-2011	From Version 27 to 28	Added	HPE 1TB 6G SAS 7.2K rpm SFF Hot plug Midline 1yr Warranty Hard Drive was added throughout.
14-Jan-2011	From Version 25 to 26	Changed	Change made in the North America and Canada versions only.
18-Nov-2010	From Version 24 to 25	Changed	Models were updated.
05-Oct-2010	From Version 23 to 24	Changed	Service and Support was completely revised.
09-Mar-2010	From Version 22 to 23	Added	HPE 450GB and 600GB 6G SAS 10K SFF (2.5-inch) Dual Port Enterprise Hard Drives were added to SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives, HPE 600GB 6G SAS 10K SFF (2.5-inch) Non-Hot Plug Dual Port ENT Hard Drive was added to SAS non-Hot Plug SF (2.5-inch) Enterprise (ENT) Drives and 1TB and 2TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline Hard Drives were added to SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives.
16-Feb-2010	From Version 21 to 22	Changed	Hard drive descriptions were revised to reflect warranty information.
14-Sep-2009	From Version 20 to 21	Changed	Updated Models throughout the QuickSpecs.
14-Jul-2009	From Version 19 to 20	Changed	Changes made in the Models and Technical Specifications sections.
13-Jul-2009	From Version 18 to 19	Added	SAS Hot Plug SFF Midline (MDL) Drives to the QuickSpecs and Application, Warranty, Transfer Rate, 3G and 6G and System Inlet Air Temperature throughout the Technical Specifications section.
02-Jun-2009	From Version 17 to 18	Added	Added the HPE 146GB and 72GB 6G SAS 15K SFF DP ENT HDD to SAS Hot Plug SEE Enterprise (ENT) Drives and SAS

Summary of Changes

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Fl. 297  
RCB

			Non-Hot Plug SEE Enterprise (ENT) Drives to Hard Drives throughout the QuickSpecs.
27-Apr-2009	From Version 16 to 17	Changed	Changes made in the What's New, Models and Technical Specifications sections.
30-Mar-2009	From Version 15 to 16	Added	Added the HPE 300GB 6G SAS 10K SFF DP ENT HDD, HPE 146GB 6G SAS 10K SFF DP ENT HDD and HPE 146GB 3G SAS 15K SFF DP ENT HDD Hard Drives throughout the QuickSpecs.
10-Dec-2008	From Version 14 to 15	Changed	Change made in the North America and Canada versions only.
08-Dec-2008	From Version 13 to 14	Changed	Completely revised the Introduction in the Overview section and Models throughout the QuickSpecs.
17-Nov-2008	From Version 12 to 13	Changed	There were changes made to the Standard Features and Technical Specifications sections.
14-Jul-2008	From Version 11 to 12	Changed	The QuickSpecs was rewritten. NOTE that the title has changed.
11-Feb-2008	From Version 10 to 11	Changed	Changes were made throughout the QuickSpecs.
23-Sep-2007	From Version 9 to 10	Changed	Corrected the name of one of the 3.5-inch drives in the Technical Specifications section (was incorrectly listed as a 300-GB drive instead of 146-GB).
05-Sep-2007	From Version 8 to 9	Changed	Changes made throughout the QuickSpecs except for the Service and Support section.
17-Jul-2007	From Version 7 to 8	Changed	Changes made to the Drive Quality section of Standard Features only.
16-Jan-2007	From Version 6 to 7	Changed	Changes made within the OVERVIEW and TECHNICAL SPECIFICATIONS sections.
14-Nov-2006	From Version 5 to 6	Changed	Changes made within the OVERVIEW and TECHNICAL SPECIFICATIONS sections.
25-Sep-2006	From Version 4 to 5	Added	Added the HPE 146GB 3G SAS 10K SFF SP HDD Hard Drives throughout the QuickSpecs.
23-Mar-2006	From Version 3 to 4	Added	"For hard drives, 1 GB = 1 billion bytes. Actual formatted capacity is less." to the Copyright Notice.
03-Mar-2006	From Version 2 to 3	Changed	Changes made in the TECHNICAL SPECIFICATIONS section only.
06-Feb-2006	From Version 1 to 2	Changed	In OVERVIEW and TECHNICAL SPECIFICATIONS, updated part number descriptions. Updated Copyright Notice.

     
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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.

c04111744 - 12244 - Worldwide - V56 - 23-October-2017



## Summary of Changes

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Rub.	VII



Órgão SECITEC

Pregão: 0002/2021

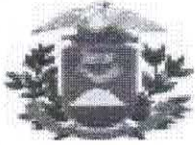
Processo nº 0111739

## TERMO DE HABILITAÇÃO

A Empresa JC COMERCIO DE TECNOLOGIA EIRELI-ME, devidamente inscrita no CNPJ /MF n.º 36190664000108, sediada na cidade de: Cuiabá - MT, AV SÃO SEBASTIÃO, telefone: (65) 3634-5079, com Inscrição Estadual n.º: , neste ato representado por seu sócio/representante, o Sr(a) KARIN COLLI, inscrito no Cadastro de Pessoas Físicas (CPF) sob o n.º 04821573130 e email: licitacao@studioinf.com.br, com poderes estabelecidos no ato de investidura (atos constitutivos da pessoa jurídica, ata de eleição do outorgante, etc.), declara sob as penas previstas no Decreto Estadual nº 11.676 de 17/08/2004, reunir todos os requisitos exigidos no ato convocatório para a habilitação, quanto às condições de qualificação jurídica, fiscal, técnica e econômica-financeira.

O Licitante Declara ser Micro ou Pequena Empresa.

Data: 23/07/2021



GOVERNO DO ESTADO DE MATO GROSSO  
SECRETARIA DE ESTADO DE GESTÃO  
SUPERINTENDÊNCIA DE AQUISIÇÕES GOVERNAMENTAIS



Número de Inscrição
5313

Certificado			
Número	Emissão	Validade	Situação
0095/21	15/03/2021	15/03/2022	Ativo

Dados da Empresa					
Razão Social:	JC COMERCIO DE TECNOLOGIA EIRELI-ME				
Natureza:	EIRELI				
Endereço:	AV SÃO SEBASTIÃO	Nº:	3855		
Cidade:	Cuiabá	UF:	MT		
CNPJ:	36.190.664/0001-08				
Insc. Municipal:		Insc. Estadual:			
Fone/Fax:	(65) 3634-5079 /	Capital	R\$ 103.900,00	Patrimônio	R\$ 15.684,00
Data da Última					

Representantes Legais			
Sócio/Nome	JESSIKA CHAVES DA SILVA	Telefone:	(65) 3634-5079

Classe de Materiais	Classe de Serviços
33903023 - MATERIAL PARA PROCESSAMENTO DE DADOS	
33903919 - AQUISIÇÃO DESENVOLVIMENTO LICENCIAMENTO E MANUTENÇÃO DE SOFTWARE DE APLICAÇÃO	
44905209 - EQUIPAMENTOS HIDRÁULICOS E ELÉTRICOS	
44905213 - MÁQUINAS, INSTALAÇÕES EQUIPAMENTOS PARA ESCRITÓRIO	
44905214 - EQUIPAMENTO PARA PROCESSAMENTO DE DADOS	
	33903402 - MÃO DE OBRA CONTRATO DE INFORMÁTICA
	33903504 - CONSULTORIA NA ÁREA DE AUDITORIA ADMINISTRATIVA
	33903508 - CONSULTORIA PESSOA JURÍDICA - INFORMÁTICA
	33903701 - MÃO DE OBRA NA ÁREA DE INFORMÁTICA
	33903801 - LOCAÇÃO DE MÁQUINAS FOTOCOPIADORAS
	33903802 - LOCAÇÃO DE EQUIPAMENTO DE INFORMÁTICA.
	33903803 - LOCAÇÃO DE MÁQUINAS E EQUIPAMENTO DIVERSOS
	33903919 - AQUISIÇÃO DESENVOLVIMENTO LICENCIAMENTO E MANUTENÇÃO DE SOFTWARE DE APLICAÇÃO
	33903939 - LOCAÇÃO DE EQUIPAMENTOS E PROCESSAMENTO DE DADOS

Data de Emissão 15/03/2021	Número de Inscrição do CERCA 0095/21	Presidente CCCF
-------------------------------	---	-----------------

Observação:



Documentos Apresentados para Cadastramento e Habilitação		
Documentos	Validade:	Atualizado em:
FGTS:	14/08/2021	06/05/2021
INSS:	19/10/2021	28/04/2021
Certidão negativa da dívida ativa do Estado:	29/07/2021	05/07/2021
Certidão negativa de tributos federais e dívida ativa da União:	19/10/2021	28/04/2021
Certidão quanto a tributos municipais:	22/08/2021	07/06/2021
Certidão quanto a tributos estaduais:	29/07/2021	05/07/2021
Certidão de falência e concordata:	31/07/2021	05/07/2021
Certidão Negativa de Débitos Trabalhistas:	18/10/2021	28/04/2021
Balanco Patrimonial:	30/04/2022	05/03/2021

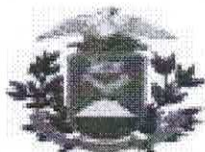
Observações: Este extrato de regularidade documental está passível de diligência junto ao Cadastro de Fornecedores, cujo intuito é a confirmação da veracidade das informações aqui dispostas, podendo ocorrer via eletrônica ou através de solicitação oficial/escrita.

Usuário:

Cálculo de Índices			
Ano Base	2020	Liquidez Geral(LG)	1,05
Ativo Circulante	289.473,02	Solvência Geral(SG)	1,05
Realizável a Longo Prazo	0,00	Liquidez Corrente	15,40
Total Ativo	289.473,02		
Passivo Circulante	18.788,51		
Exigível a Longo Prazo	255.000,00		

Obs.: A comprovação de boa situação será aferida com base nos índices maior que um (>=1)

Data de Emissão 15/03/2021	Número de Inscrição do CERCA 0095/21	Presidente CCCF
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GOVERNO DO ESTADO DE MATO GROSSO  
SECRETARIA DE ESTADO DE GESTÃO  
SUPERINTENDÊNCIA DE AQUISIÇÕES GOVERNAMENTAIS



**Datas de Vencimentos do Fornecedor**

PROCESSO	0111739	PREGÃO:	0002/2021
RAZÃO SOCIAL	JC COMERCIO DE TECNOLOGIA EIRELI-ME		
CNPJ ou CPF	36190664000108	NATUREZA:	
INSCR. ESTADUAL		INSCR. MUNICIPAL	
TELEFONE	(65) 3634-5079	FAX	
ANO BASE do BALANÇO	2020		

**Socios**

**Representante**

HESSIKA CHAVES DA SILVA

**Classe de Materiais**

33903919 - AQUISIÇÃO DESENVOLVIMENTO LICENCIAMENTO E MANUTENÇÃO DE SOFTWARE DE APLICAÇÃO  
44905214 - EQUIPAMENTO PARA PROCESSAMENTO DE DADOS  
44905209 - EQUIPAMENTOS HIDRÁULICOS E ELÉTRICOS  
44905213 - MÁQUINAS, INSTALAÇÕES EQUIPAMENTOS PARA ESCRITÓRIO  
33903023 - MATERIAL PARA PROCESSAMENTO DE DADOS

**Classe de Serviços**

33903919 - AQUISIÇÃO DESENVOLVIMENTO LICENCIAMENTO E MANUTENÇÃO DE SOFTWARE DE APLICAÇÃO  
33903504 - CONSULTORIA NA ÁREA DE AUDITORIA ADMINISTRATIVA  
33903508 - CONSULTORIA PESSOA JURÍDICA - INFORMÁTICA  
33903802 - LOCAÇÃO DE EQUIPAMENTO DE INFORMÁTICA.  
33903939 - LOCAÇÃO DE EQUIPAMENTOS E PROCESSAMENTO DE DADOS  
33903803 - LOCAÇÃO DE MÁQUINAS E EQUIPAMENTO DIVERSOS  
33903801 - LOCAÇÃO DE MÁQUINAS FOTOCOPIADORAS  
33903402 - MÃO DE OBRA CONTRATO DE INFORMÁTICA  
903701 - MÃO DE OBRA NA ÁREA DE INFORMÁTICA

Documento	Número	Emissão	Vencimento
CERCA	0095/21	15/03/2021	15/03/2022
FGTS	0	17/04/2021	14/08/2021
INSS	0	22/04/2021	19/10/2021
Certidão Negativa Federal	0	30/06/2021	29/07/2021
Certidão Negativa Municipal		24/05/2021	22/08/2021
Certidão Negativa Estadual		30/06/2021	29/07/2021
Certidão Negativa com a União	0	22/04/2021	19/10/2021
Certidão de Falência		02/07/2021	31/07/2021
Certidão Negativa de Débitos Trabalhistas		22/04/2021	18/10/2021



Cálculo de Índices			
Ano Base	2020	Liquidez Geral(LG)	1.05
Ativo Circulante	\$ 289,473.02	Solvência Geral(SG)	1.05
Realizável a Longo Prazo	\$ 0.00	Liquidez Corrente	15.40
Total Ativo	\$ 289,473.02	Patrimônio Líquido	\$ 15,684.00
Passivo Circulante	\$ 18,788.51	Obs.: A comprovação de boa situação será aferida com base nos índices maior que um (>=1)	
Exigível a Longo Prazo	\$ 255,000.00		

Declaração Original

Exercício 2021

Ano-Calendário 2020

Período abrangido pela Declaração: 01/01/2020 a 31/12/2020

**1. Identificação do Contribuinte**

CNPJ Matriz: 36.190.664/0001-08  
Nome empresarial: JC COMERCIO DE TECNOLOGIA EIRELI  
Data de abertura no CNPJ: 30/01/2020  
Regime de Apuração: competência  
Optante pelo Simples Nacional: Sim

**1.1 CNPJ das Filiais Presentes nesta declaração:**

Nenhuma.

**2. Informações Econômico-Fiscais da Pessoa Jurídica**

Ganhos de capital	R\$ 0,00
Quantidade de empregados no início do período abrangido pela declaração	0
Quantidade de empregados no final do período abrangido pela declaração	4
Receita proveniente de exportação direta	R\$ 0,00
Lucro superior ao limite de que trata o § 1º do art. 6º da resolução CGSN nº 4 de 30/05/2007, no período abrangido por esta declaração	R\$ 0,00
Total de ganhos líquidos auferidos em operações de renda variável	R\$ 0,00

**2.1 Receita proveniente de exportação por meio de comercial exportadora**

CNPJ da comercial exportadora	Valor
-	-

**2.2 Identificação e Rendimentos dos Sócios**

CPF do sócio: 029.170.341-06

Nome: JESSIKA CHAVES DA SILVA

Rendimentos isentos pagos ao sócio pela empresa	R\$ 17.034,14
Rendimentos tributáveis pagos ao sócio pela empresa	R\$ 0,00
Percentual de participação do sócio no capital social da empresa no	100,00%



último dia do período abrangido pela declaração

Imposto de renda retido na fonte sobre os rendimentos pagos ao sócio pela ME/EPP

R\$ 0,00

2.3 Percentual de participação em cotas em tesouraria no capital social da empresa (%)

0,00%

2.4 Doações à Campanha Eleitoral

CNPJ do Beneficiário	Nome do Beneficiário	Tipo de Beneficiário	Forma de Doação	Valor
-	-	-	-	-

3. Informações Econômicas e Fiscais dos Estabelecimentos

Estabelecimento: 36.190.664/0001-08 UF: MT

Estoque inicial do período abrangido pela declaração	R\$ 0,00
Estoque final do período abrangido pela declaração	R\$ 158.880,99
Saldo em caixa/banco no início do período abrangido pela declaração	R\$ 0,00
Saldo em caixa/banco no final do período abrangido pela declaração	R\$ 68.512,03
Total de aquisições de mercadorias para comercialização ou industrialização no período abrangido pela declaração	R\$ 259.988,24
Aquisições no mercado interno	R\$ 259.988,24
Importações	R\$ 0,00
Total de entradas de mercadorias por transferência para comercialização ou industrialização no período abrangido pela declaração	R\$ 0,00
Total de saídas de mercadorias por transferência para comercialização ou industrialização no período abrangido pela declaração	R\$ 0,00
Total de devoluções de vendas de mercadorias para comercialização ou industrialização no período abrangido pela declaração	R\$ 2.980,00
Total de devoluções de compras de mercadorias para comercialização ou industrialização no período abrangido pela declaração	R\$ 20.953,00
Total de entradas no período abrangido pela declaração	R\$ 264.968,15
Total de despesas no período abrangido pela declaração	R\$ 343.224,43

Total de entradas interestaduais por UF

UF	Valor
ES	R\$ 207.964,04
MG	R\$ 47.024,20

**Total de saídas interestaduais por UF**

UF	Valor
ES	R\$ 8.580,00
MG	R\$ 20.953,00

**Valor do ISS retido na fonte no ano-calendário, por Município**

UF	Município	Valor
-	-	-

**Prestações de Serviços de Comunicação**

UF onde o serviço foi prestado	Município onde o serviço foi prestado	Valor
-	-	-

Informações sobre prestação de serviços de transporte de cargas interestadual e/ou intermunicipal, e de transporte intermunicipal e interestadual de passageiros autorizados no inciso VI do art. 17 da LC 123 com e sem substituição tributária

UF de origem	Município onde se iniciou a prestação do serviço	Valor da Prestação (R\$)
-	-	-

**4. Informações da Recepção da Declaração**

Data e Horário da transmissão da Declaração: 29/03/2021 18:16:16  
 Número do Recibo: 02.07.21088.0501995-2  
 Autenticação: 36081.19613.06410.64115

Exercício: 2021

Ano Calendário: 2020

**RECIBO DE ENTREGA**

DECLARAÇÃO ORIGINAL

Período abrangido pela Declaração: 01/01/2020 a 31/12/2020

**1. Informações do Contribuinte**

Nome empresarial	CNPJ da Matriz
JC COMERCIO DE TECNOLOGIA EIRELI	36.190.664/0001-08
Data da Abertura no CNPJ	Optante pelo Simples Nacional
30/01/2020	Sim
Regime de Apuração	
Competência	
CNPJ das Filiais Presentes Nesta Declaração	
Nenhuma	

**2. Informações da Recepção da Declaração**

Data e Horário da Transmissão da Declaração
29/03/2021 18:16:16
Número do Recibo
02.07.21088.0501995-2
Autenticação
36081.19613.06410.64115



NIRE (da sede ou filial, quando a sede for em outra UF)	Código da Natureza Jurídica	Nº de Matrícula do Agente Auxiliar do Comércio
	2305	

1 - REQUERIMENTO

ILMO(A). SR.(A) PRESIDENTE DA Junta Comercial do Estado de Mato Grosso

Nome: JC COMERCIO DE TECNOLOGIA EIRELI  
(da Empresa ou do Agente Auxiliar do Comércio)

Nº FCN/REMP



MTP2000012479

requer a V.Sª o deferimento do seguinte ato:

Nº DE VIAS	CÓDIGO DO ATO	CÓDIGO DO EVENTO	QTDE	DESCRIÇÃO DO ATO / EVENTO
1	091			ATO CONSTITUTIVO - EIRELI
		315	1	ENQUADRAMENTO DE MICROEMPRESA

CUIABA

Local

29 Janeiro 2020

Data

Representante Legal da Empresa / Agente Auxiliar do Comércio:

Nome: \_\_\_\_\_

Assinatura: \_\_\_\_\_

Telefone de Contato: \_\_\_\_\_

2 - USO DA JUNTA COMERCIAL

DECISÃO SINGULAR  DECISÃO COLEGIADA

Nome(s) Empresarial(ais) igual(ais) ou semelhante(s):

<input type="checkbox"/> SIM	<input type="checkbox"/> SIM
_____	_____
_____	_____
_____	_____

Processo em Ordem À decisão

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Data

<input type="checkbox"/> NÃO	_____/_____/_____ Data	_____ Responsável	<input type="checkbox"/> NÃO	_____/_____/_____ Data	_____ Responsável
------------------------------	---------------------------	----------------------	------------------------------	---------------------------	----------------------

\_\_\_\_\_  
Responsável

DECISÃO SINGULAR

<input type="checkbox"/> Processo em exigência. (Vide despacho em folha anexa)	2ª Exigência	3ª Exigência	4ª Exigência	5ª Exigência
<input type="checkbox"/> Processo deferido. Publique-se e archive-se.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Processo indeferido. Publique-se.				
			_____/_____/_____ Data	_____ Responsável

DECISÃO COLEGIADA

<input type="checkbox"/> Processo em exigência. (Vide despacho em folha anexa)	2ª Exigência	3ª Exigência	4ª Exigência	5ª Exigência
<input type="checkbox"/> Processo deferido. Publique-se e archive-se.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Processo indeferido. Publique-se.				
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		Presidente da _____ Turma		

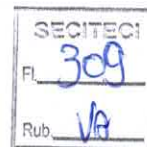
OBSERVAÇÕES





# JUNTA COMERCIAL DO ESTADO DE MATO GROSSO

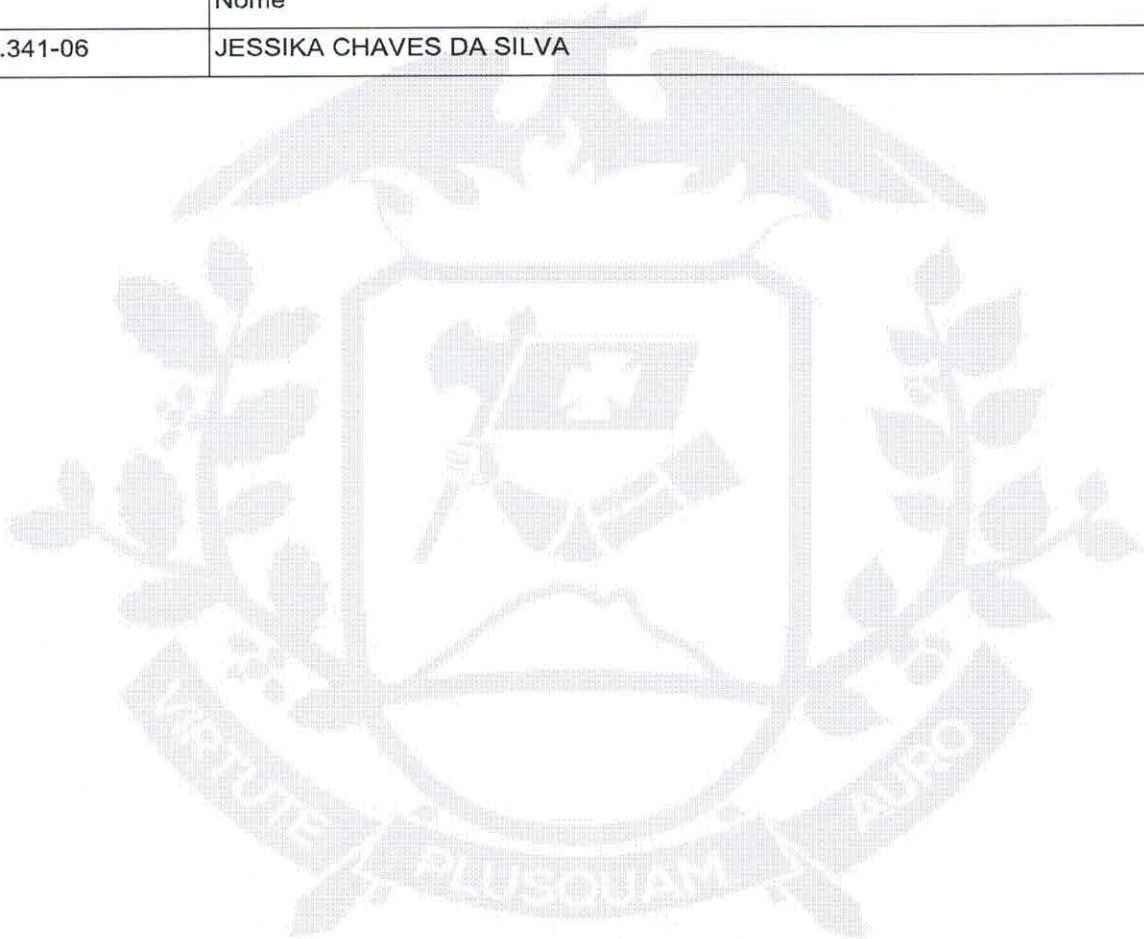
Registro Digital



## Capa de Processo

Identificação do Processo		
Número do Protocolo	Número do Processo Módulo Integrador	Data
20/013.504-0	MTP2000012479	24/01/2020

Identificação do(s) Assinante(s)	
CPF	Nome
029.170.341-06	JESSIKA CHAVES DA SILVA



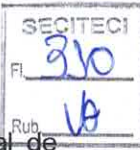
Junta Comercial do Estado de Mato Grosso



**Ato Constitutivo Da Empresa Individual De Responsabilidade Limitada  
JC COMERCIO DE TECNOLOGIA EIRELI**

Pag. 01/03

Pelo presente Instrumento Particular de Constituição:



**JESSIKA CHAVES DA SILVA**, brasileira, empresária, solteira, natural de Cuiabá – Mato Grosso, nascida no dia 24 de julho de 1992, portadora do CPF (MF) N.º 029.170.341-06, e documento de identidade RG N.º 2040.831-5 SSP/MT; Residente e domiciliada à Rua Princesa Isabel, nº 144, Bairro: Centro, CEP: 78.510-000, Itaúba- MT.

Resolve por este ato constituir, como de fato constitui uma empresa do tipo jurídico, Empresa Individual de Responsabilidade Limitada - EIRELI, nos termos do art. 980-A da Lei nº 10.406/2002, mediante as condições e cláusulas seguintes:

**Cláusula Primeira**→ A empresa girará sob o nome empresarial: **JC COMERCIO DE TECNOLOGIA EIRELI** e adotará o nome fantasia: **GUERREIRO TECNOLOGIA**.

Parágrafo único -> **DECLARAÇÃO ENQUADRAMENTO DE MICROEMPRESA**, Declara sob as penas da Lei, que se enquadra na condição de MICROEMPRESA, nos termos da Lei Complementar nº. 123, de 14/12/2006.

**Cláusula Segunda**→ A empresa terá sede e domicilio na: Avenida São Sebastião, nº 3855, sala 03, Bairro: Quilombo, CEP: 78.045.000 na cidade de Cuiabá- MT.

**Cláusula Terceira**→ A empresa pode, a qualquer tempo, abrir ou fechar filial ou outra dependência, mediante alteração do ato constitutivo.

**Cláusula Quarta**→ A empresa tem por objeto(s):

- Comercio de equipamentos informática: computadores, notebook, impressoras, scanner, monitores, estabilizadores e teclados;
- Comercio de eletros-eletrônicos: ar condicionados, televisores;
- Suprimentos papelaria, informática e material gráfico;
- Produtos de papelaria, livraria, máquinas, móveis, utensílios e equipamentos eletro - eletrônicos para escritórios e residências;
- Câmera, placa monitoramento, cerca elétrica e central alarme;
- Artigos cinematografia; Fotografia; Radiofonia e telecomunicações;
- Material elétrico: transformadores, geradores, disjuntores, painéis elétricos, fios e iluminação;
- Comercio de eletros – eletrônicos;
- Material de construção: telhas, tijolos, cerâmica, pregos, tintas, ferros e cimento;
- Comercio equipamentos de telemetria e medição;
- Agenciamento de espaços para publicidade;

Junta Comercial do Estado de Mato Grosso

Certifico registro sob o nº 51600270787 em 30/01/2020 da Empresa JC COMERCIO DE TECNOLOGIA EIRELI, Nire 51600270787 e protocolo 200135040 - 24/01/2020. Autenticação: D2ADE7BED9AACEF1B1421343F7CB66B1F8F9483. Julio Frederico Muller Neto - Secretário-Geral. Para validar este documento, acesse <http://www.jucemat.mt.gov.br/> e informe nº do protocolo 20/013.504-0 e o código de segurança ziF5 Esta cópia autenticada digitalmente e assinada em 30/01/2020 por Julio Frederico Muller Neto – Secretário-Geral.

JULIO FREDERICO MULLER NETO  
SECRETARIO GERAL

pág. 3/

# Ato Constitutivo Da Empresa Individual De Responsabilidade Limitada JC COMERCIO DE TECNOLOGIA EIRELI

Pag. 02/03

- Venda Veículos Automotores: veículos passeios e motos;
- Motor e peças para: veículos utilitários, cargas, motos e barcos;
- Comercio de alumínio e ferros;
- Recarga de Tonner e Cartuchos de Impressoras;
- Geoprocessamento, Medição Científica de Propaganda;
- Desenvolvimentos de redes para computadores;
- Consultoria e assessoria em projetos de informática, Equipamentos e Softwares;
- Segurança Eletrônica CFTV e monitoramento;
- Planejamento e execução de: feiras, palestras, simpósio e organizações de eventos;
- Instalação e manutenção de equipamentos de telemetria e medição;
- Representação Comercial.
- Computadores, Periféricos, Sistema de Segurança Eletrônica e Softwares;
- Veículos Automotores, de Cargas, utilitários, barcos e Motos;
- Equipamentos de tecnologia: Artigos cinematografia; Fotografia, Radiofonia, telecomunicações, torres;
- Locação de servidores, e equipamentos para conectividade de rede;
- Locação de equipamentos de telemetria e medição;
- Redes, servidores e sistemas de comunicação dados e voz;
- Equipamentos informática, e monitoramento eletrônico;
- Equipamentos De Segurança Eletrônica CFTV.
- Instalação e manutenção em conectividade de rede;
- Consultoria e Assessoria em projetos de sustentabilidade ambiental;
- Consultoria e Assessoria em projetos de gestão pública;
- Consultoria e Assessoria em projetos de softwares de gestão pública;
- Treinamentos em sistemas de tecnologia e softwares de gestão pública
- Agenciamento De Espaços Físicos Para Publicidade.



Cláusula Quinta→ A empresa iniciará suas atividades a partir da data do arquivamento e seu prazo de duração é indeterminado.

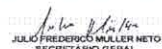
Cláusula Sexta→ A empresa tem o capital de R\$ 103.900,00 (cento e três mil e novecentos reais), totalmente subscrito e integralizado, neste ato, em moeda corrente nacional, de responsabilidade do titular.

Cláusula Sétima→ A responsabilidade do titular é restrita ao valor do capital integralizado.



Junta Comercial do Estado de Mato Grosso

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JULIO FREDERICO MULLER NETO  
SECRETÁRIO GERAL

pág. 4/

**Ato Constitutivo Da Empresa Individual De Responsabilidade Limitada**  
**JC COMERCIO DE TECNOLOGIA EIRELI**

Pag. 03/03

SECRETARIA

312

JA

Cláusula Oitava→ A administração da sociedade será exercida pelo titular acima qualificado o Sr. **JESSIKA CHAVES DA SILVA**, que assina exclusivamente, os negócios de exclusivo interesse da empresa, cabendo-lhes todos os poderes necessários para gerir os negócios sociais, podendo representar a sociedade ativa e passivamente, judicial, extrajudicialmente, constituir procuradores “**Ad-Judícia e Et Extra**”, bem como, praticar todo e qualquer ato de gestão no interesse da sociedade, ficando dispensada da prestação de caução.

Cláusula Nona→ Ao término de cada exercício da empresa, em 31 de dezembro, proceder-se-á a elaboração do inventário, do balanço patrimonial e do balanço de resultado econômico, cabendo ao titular, os lucros ou perdas apurados.

Cláusula Décima→ Falecendo ou interditado o titular, a empresa continuará sua atividade com os herdeiros ou sucessores. Não sendo possível ou inexistindo interesse destes, o valor de seus haveres será apurado e liquidado com base na situação patrimonial da empresa, à data da resolução, verificada em balanço especialmente levantado.

Cláusula Décima Primeira→ O Administrador declara, sob as penas da lei, que não está impedido de exercer a administração da empresa, por lei especial ou em virtude de condenação criminal, ou por se encontrar sob os efeitos dela, a pena que vede, ainda que temporariamente, o acesso a cargos públicos, ou por crime falimentar, de prevaricação, peita ou suborno, concussão, peculato ou contra a economia popular, contra o sistema financeiro nacional, contra normas de defesa da concorrência, contra as relações de consumo, fé pública ou propriedade.

Cláusula Décima Segunda→ O titular da empresa declara, sob as penas da lei, que não participa de outra empresa da mesma modalidade, estando desimpedido para constituir a presente EIRELI.

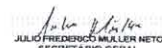
Cláusula Décima Terceira→ Fica eleito o foro de CUIABÁ- MT para o exercício e o cumprimento dos direitos e obrigações resultantes deste ato constitutivo

Cuiabá– Mato Grosso, 22 de Janeiro de 2020.

\_\_\_\_\_  
**JESSIKA CHAVES DA SILVA**

Junta Comercial do Estado de Mato Grosso

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JULIO FREDERICO MULLER NETO  
SECRETARIO GERAL

pág. 5/



# JUNTA COMERCIAL DO ESTADO DE MATO GROSSO

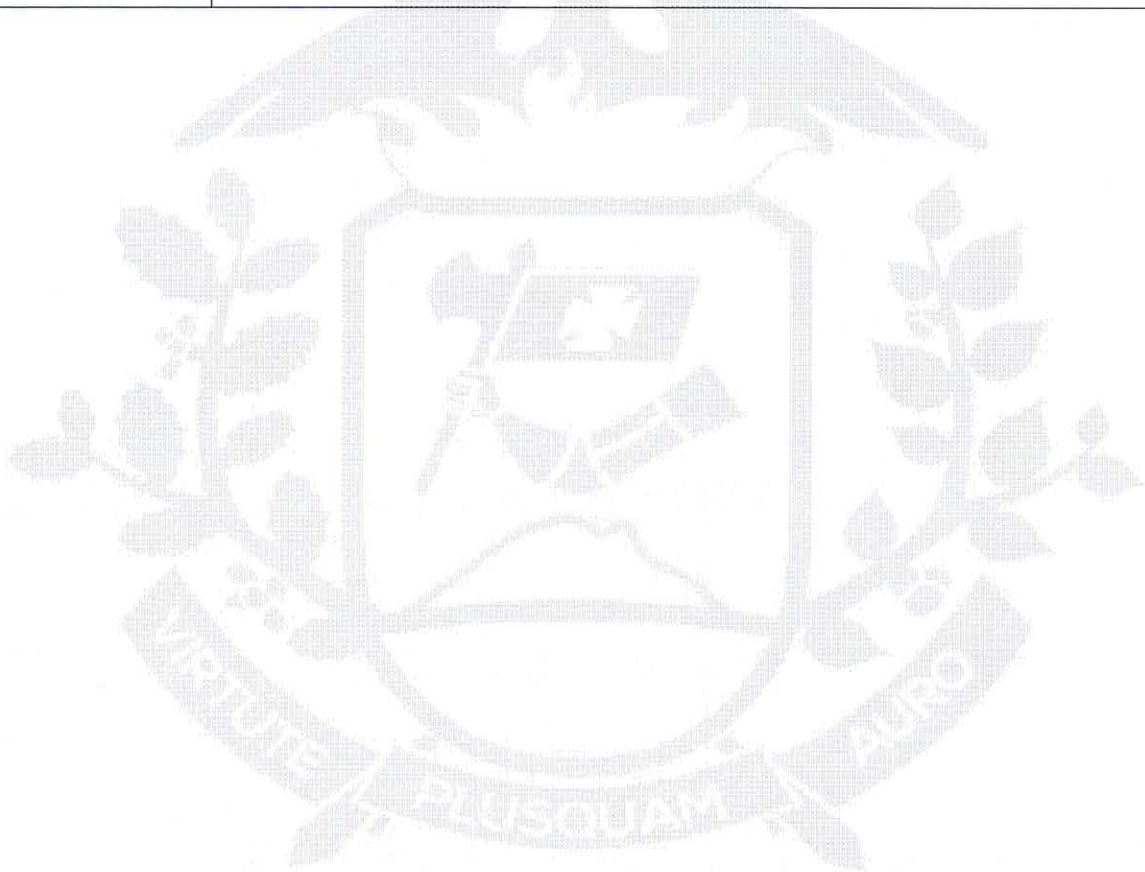
Registro Digital



Documento Principal

Identificação do Processo		
Número do Protocolo	Número do Processo Módulo Integrador	Data
20/013.504-0	MTP2000012479	24/01/2020

Identificação do(s) Assinante(s)	
CPF	Nome
029.170.341-06	JESSIKA CHAVES DA SILVA



Junta Comercial do Estado de Mato Grosso



SECITECI  
Fl. 354  
Rdb. VP

REPÚBLICA FEDERATIVA DO BRASIL  
MINISTÉRIO DAS CIDADES  
DEPARTAMENTO NACIONAL DE TRANSITO  
CARTEIRA NACIONAL DE HABILITACAO

NOME  
JESSIKA CHAVES DA SILVA



DOC. IDENTIDADE / ORG. EMISSOR / UF  
20408315 SSP MT

CNPJ  
029.170.341-06

DATA NASCIMENTO  
24/07/1992

FILIAÇÃO  
JOSE JUAREZ DA SILVA  
MARIA AUGUSTA CHAVES

PERMISSÃO  
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ACC  
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CAT. HAB.  
AB

IF REGISTRO  
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VALIDADE  
27/01/2021

1ª HABILITAÇÃO  
04/05/2011

GERAÇÕES

ASSINATURA DO PORTADOR

LOCAL  
COTABA, MT

DATA EMISSÃO  
02/02/2016

Fernando Martin Lopes  
Chefe de Inscrição - Detran/MT  
ASSINATURA DO EMISSOR

91483881355  
MT624586359

DETRAN - MT (MATO GROSSO)

VÁLIDA EM TODO  
O TERRITÓRIO NACIONAL  
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PROIBIDO PLASTIFICAR  
1219055229



# JUNTA COMERCIAL DO ESTADO DE MATO GROSSO

Registro Digital



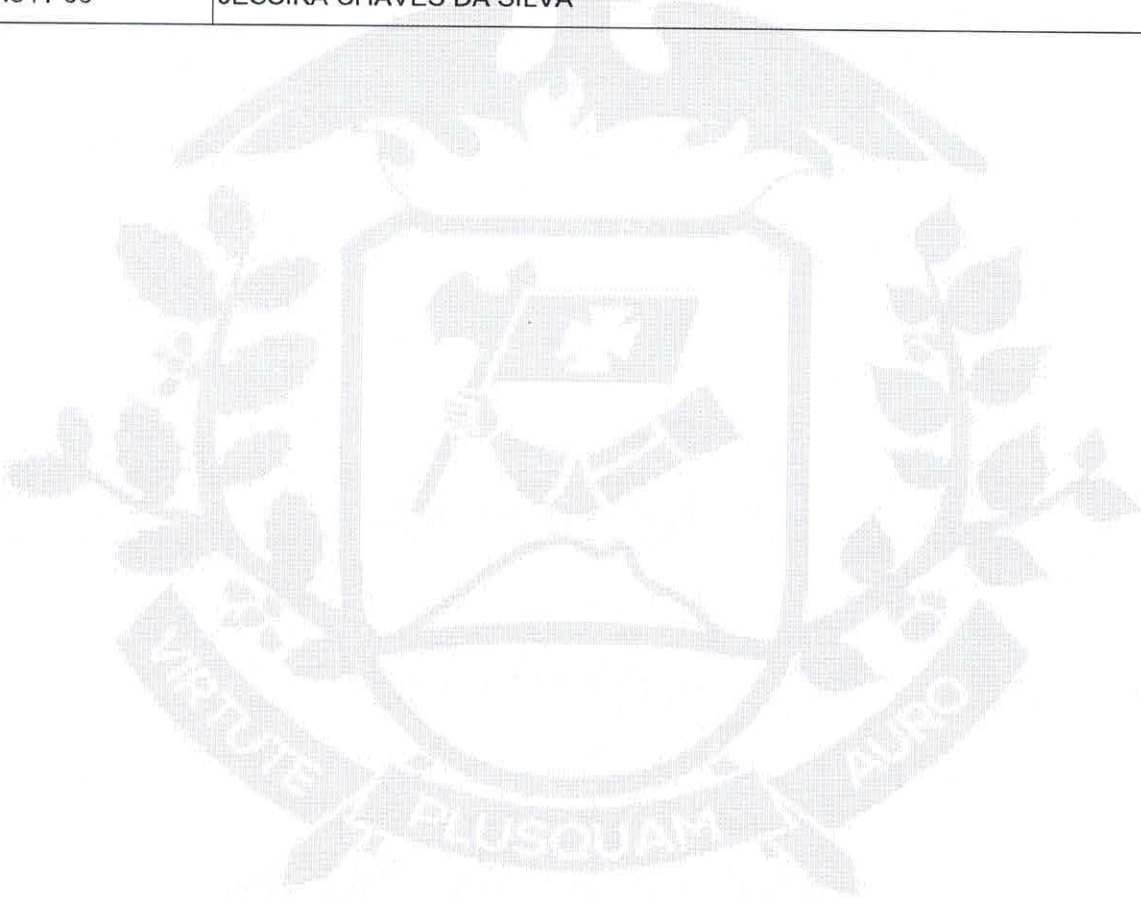
Anexo

## Identificação do Processo

Número do Protocolo	Número do Processo Módulo Integrador	Data
20/013.504-0	MTP2000012479	24/01/2020

## Identificação do(s) Assinante(s)

CPF	Nome
029.170.341-06	JESSIKA CHAVES DA SILVA



Junta Comercial do Estado de Mato Grosso



## TERMO DE AUTENTICAÇÃO - REGISTRO DIGITAL

Certifico que o ato, assinado digitalmente, da empresa JC COMERCIO DE TECNOLOGIA EIRELI, de NIRE 5160027078-7 e protocolado sob o número 20/013.504-0 em 24/01/2020, encontra-se registrado na Junta Comercial sob o número 51600270787, em 30/01/2020. O ato foi deferido eletronicamente pelo examinador Elizangela Santos Dias.

Certifica o registro, o Secretário-Geral, Julio Frederico Muller Neto. Para sua validação, deverá ser acessado o sitio eletrônico do Portal de Serviços / Validar Documentos (<https://portalservicos.jucemat.mt.gov.br/Portal/pages/imagemProcesso/viaUnica.jsf>) e informar o número de protocolo e chave de segurança.

### Capa de Processo

Assinante(s)	
CPF	Nome
029.170.341-06	JESSIKA CHAVES DA SILVA

### Documento Principal

Assinante(s)	
CPF	Nome
029.170.341-06	JESSIKA CHAVES DA SILVA

### Anexo

Assinante(s)	
CPF	Nome
029.170.341-06	JESSIKA CHAVES DA SILVA

Cuiabá, quinta-feira, 30 de janeiro de 2020



Documento assinado eletronicamente por Elizangela Santos Dias, Servidor(a) Público(a), em 30/01/2020, às 10:10 conforme horário oficial de Brasília.



A autenticidade desse documento pode ser conferida no [portal de serviços da jucemat](http://www.jucemat.mt.gov.br) informando o número do protocolo 20/013.504-0.



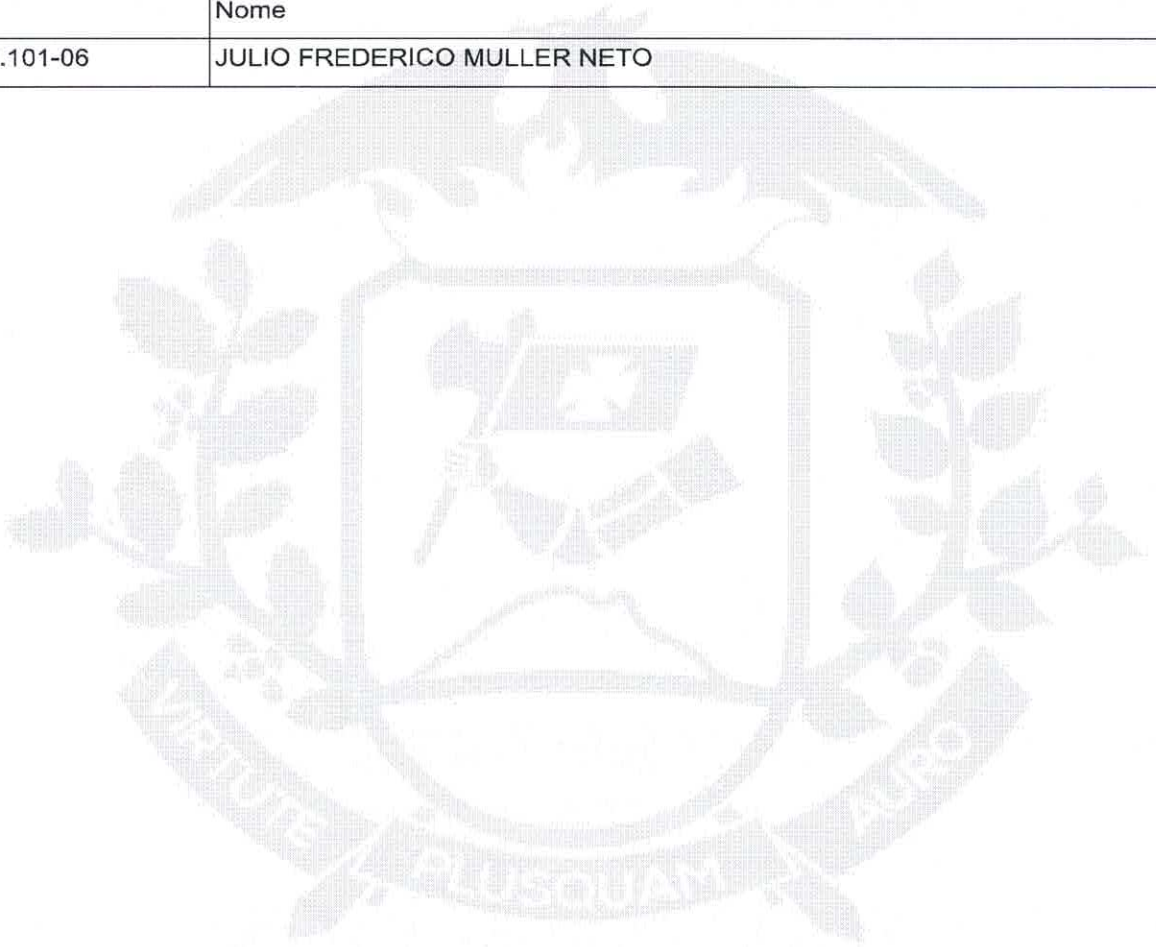
# JUNTA COMERCIAL DO ESTADO DE MATO GROSSO

Registro Digital



O ato foi deferido e assinado digitalmente por :

Identificação do(s) Assinante(s)	
CPF	Nome
955.179.101-06	JULIO FREDERICO MULLER NETO



Cuiabá, quinta-feira, 30 de janeiro de 2020



Junta Comercial do Estado de Mato Grosso

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**GOVERNO DO ESTADO DE MATO GROSSO**  
**SISTEMA DE GESTÃO DE DOCUMENTOS - PROTOCOLO**


**TERMO DE RESSALVA**

PROCESSO Nº: 111739/2021.

Ressalva: Necessário ser feita a repaginação das folhas nº 200 até 282, por motivos de erro na paginação inicial.

LOCAL/DATA

27, 07, 2021

  
Vitor Felipe Bastos de Arruda Carneiro  
Assessor Técnico I  
Matrícula: 298254  
SECITECI/MT

Carimbo e assinatura do responsável