

Server, Storage, SSD 测试常用转接线、 扩展柜、夹具速查手册

该文档提供了针对 Server, Storage (含 SSD) 研发中心测试部门常用转接线缆和夹具的速查手册, 该手册罗列了各种常用于研发、测试部门的针对 PCIe Gen 1/2/3/4, 12G SAS, 6G SAS/SATA, QSFP 等常用接口的各种转接线, 扩展柜和夹具。

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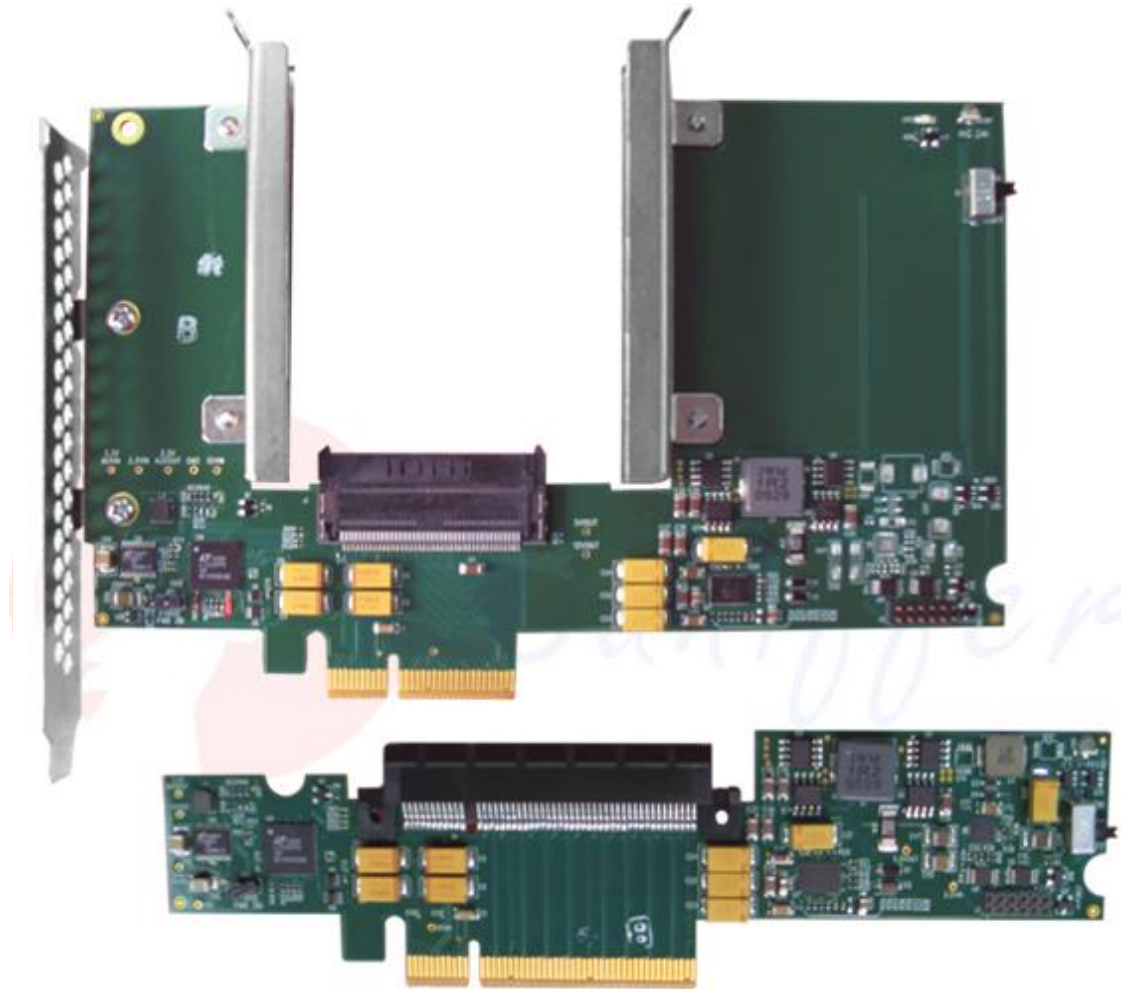
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Server, Storage, SSD 测试常用转接线、扩展柜、夹具速查手册







本文列举了业内于 Server, Storage 以及 SSD 测试环境中常用的各类转接线、扩展柜、夹具等，方便测试工程师速查。




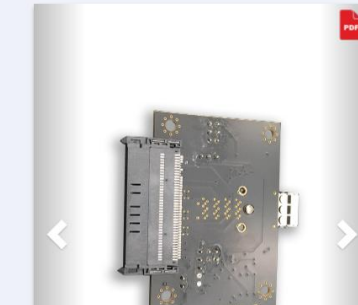
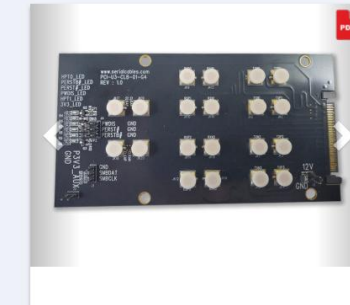
注意：本档内部有些内容取自第三方网站，为了阅读方便全部采用英文原版。

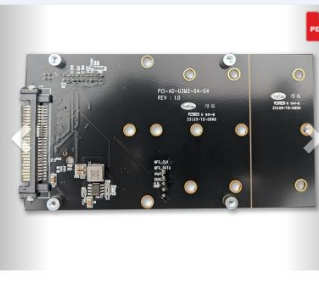

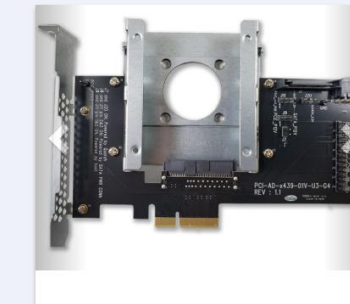
(一) PCIe 常用转接产品线

1.1 PCIe Gen 4 U.2 Adapter 适配卡



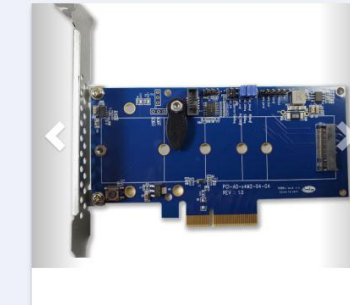
		
<p>Quick View</p> <p>PCIe Gen4 U.2 to M.2 Adapter</p> <p>Part#: PCI-AD-U2M2-0452</p>	<p>Quick View</p> <p>PCIe Gen4 x1 to x16 Adapter</p> <p>Part#: PCI-AD-x1-x16-G4</p>	<p>Quick View</p> <p>PCIe Gen4 x4 Slot to Oculink Passive Adapter</p> <p>Part#: PCI-AD-x412E-04-G4</p>
		
<p>Quick View</p> <p>PCIe Gen4 x4 to U.3 Horizontal Adapter</p> <p>Part#: PCI-AD-x439H-03-G4-U3</p> <p>In Stock</p>	<p>Quick View</p> <p>PCIe Gen4 x4 to U.3 Vertical Adapter</p> <p>Part#: PCI-AD-x439-01-G4-U3</p> <p>Lead Time: Please Call</p>	<p>Quick View</p> <p>PCIe Gen4 x4 to x16 Adapter</p> <p>Part#: PCI-AD-x4-x16-G4</p> <p>In Stock</p>

1.2 PCIe Gen 4 U.3 Adapter 适配卡

		
<p>Quick View</p> <p>PCIe Gen4 Oculink SFF-8611 – U.3 Adapter</p> <p>Part#: PCI-AD-1239-U3-G4</p> <p>In Stock</p>	<p>Quick View</p> <p>PCIe Gen4 SFF-8644 – U.3 Adapter</p> <p>Part#: PCI-AD-4439U3-G4</p> <p>In Stock</p>	<p>Quick View</p> <p>PCIe Gen4 U.3 Compliance Load Board</p> <p>Part#: PCI-U3-CLB-01-G4</p> <p>In Stock</p>

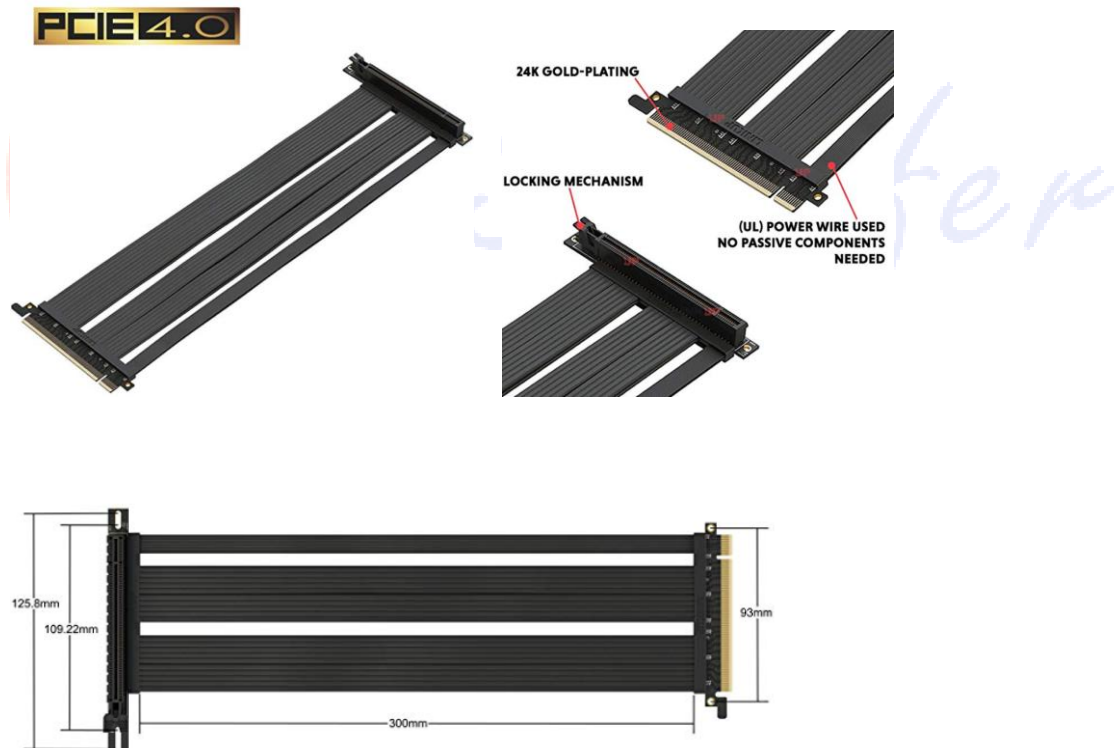
		
<p>Quick View</p> <p>PCIe Gen4 U.3 to M.2 Adapter</p> <p>Part#: PCI-AD-U3M2-04-G4</p> <p>In Stock</p>	<p>Quick View</p> <p>PCIe Gen4 x4 to U.3 Horizontal Adapter</p> <p>Part#: PCI-AD-x439-01H-U3-G4</p> <p>In Stock</p>	<p>Quick View</p> <p>PCIe Gen4 x4 to U.3 Vertical Adapter</p> <p>Part#: PCI-AD-x439-01V-U3-G4</p> <p>In Stock</p>

1.3 PCIe Gen 4 其它转接卡



		
<p>Quick View</p> <p>PCIe Gen3 x4 Slot to Oculink Passive Adapter</p> <p>Part#: PCI-AD-x412E-04-G4</p> <p>Lead Time: Please Call</p>	<p>Quick View</p> <p>PCIe Gen4 x1 to x16 Adapter</p> <p>Part#: PCI-AD-x1-x16-G4</p> <p>In Stock</p>	<p>Quick View</p> <p>PCIe Gen4 x4 Slot – M.2 Adapter</p> <p>Part#: PCI-AD-x4M2-04-G4</p> <p>Lead Time: Please Call</p>




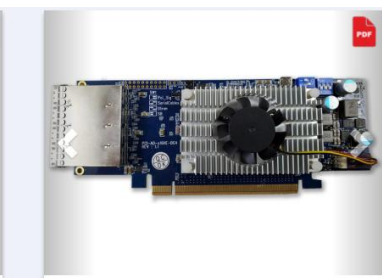
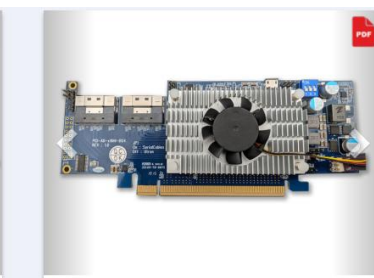
1.4 PCIe Gen 4 x16 延长线



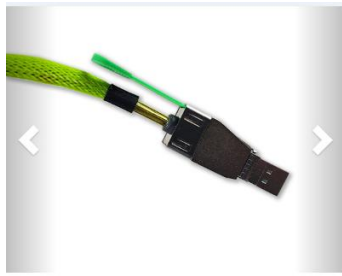
1.5 PCIe Gen 4 U.2 和 U.3 盘柜

	
<p>Quick View</p> <p>PCIe Gen4 2.5" U.2 8bay Active JBOF</p> <p>Part#: PCI4-ENC16G-U2-08-BG4</p> <p>Lead Time: Please Call</p>	<p>Quick View</p> <p>PCIe Gen4 2.5" U.3 8bay Active JBOF</p> <p>Part#: PCI4-ENC16G-U3-08-BG4</p> <p>Lead Time: Please Call</p>

1.6 PCIe Gen 4 HBA 卡

		
<p>Quick View</p> <p>PCIe Gen4 x16 host card w/M.2 and x8 Straddle Mount Support</p> <p>Part#: PCI-AD-x16M2x8-BG4</p> <p>Lead Time: Please Call</p>	<p>Quick View</p> <p>PCIe Gen4 x16 SFF-8644 Host Card with Broadcom Atlas B0 PCIe Switch</p> <p>Part#: PCI-AD-x16HE-BG4</p> <p>Lead Time: Please Call</p>	<p>Quick View</p> <p>PCIe Gen4 x16 SFF-8654 SlimSAS Host Card with Broadcom Atlas B0 PCIe Switch</p> <p>Part#: PCI-AD-x16HI-BG4</p> <p>Lead Time: Please Call</p>

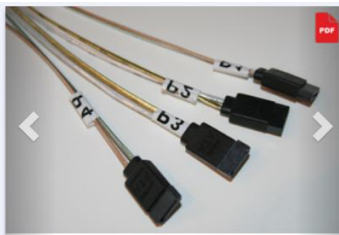
1.7 PCIe Gen 4 Oculink Cables



[Quick View](#)

Gen4 x4 Oculink (SFF-8611) 42P to Ext. HD (SFF-8644) 36P Cable

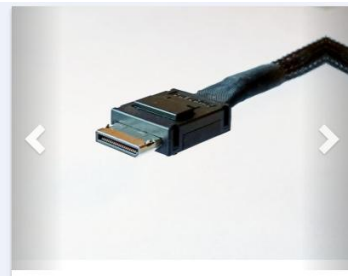
Lead Time: Please Call



[Quick View](#)

OCULink x4 (SFF-8611) Str. 42-pin to *4 7-pin SATA 0.5M Cable

Part#: OCL-4X-7PS-0.5M



[Quick View](#)

OCULink X4 (SFF-8611) Str. 42P to OCULink X4 (SFF-8611) Str. 42P Cable

Lead Time: Please Call



[Quick View](#)

OCULink x4 42-pin (SFF-8611) to Int. SAS 36-pin (SFF-8087) 1M Cable

Part#: OCL-4X-87X1-1M



[Quick View](#)

OCULink x4 42P (SFF-8611) to *2 OCULink x2 42P (SFF-8611) Cable

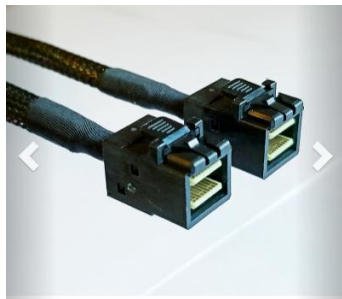
Part#: OCLP-4X-4X2-0.5M



[Quick View](#)

OCULink x4 42P (SFF-8611) to *4 OCULink x1 42P (SFF-8611) Cable

Part#: OCLP-4X-4X4-0.5M



[Quick View](#)

OCULink x8 (SFF-8611) Str. 80-pin to *2 Int. MiniSAS HD (SFF-8643) x4 Str. 36-pin Cable

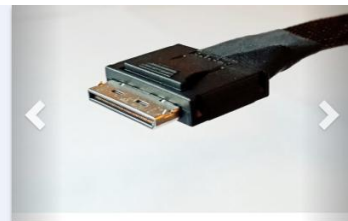
In Stock



[Quick View](#)

OCULink x8 (SFF-8611) Str. 80-pin to *2 OCULink x4 (SFF-8611) Str. 42-pin Cable

In Stock



[Quick View](#)

OCULink x8 (SFF-8611) Str. 80P to OCULink x8 (SFF-8611) Str. 80P Cable

In Stock



Quick View

X4 Oculink (SFF-8611) to Multilink PCIe4/NVMe Drive (SFF-8639) Cable

In Stock

1.8 PCIe Gen 4 SlimSAS Cables



Quick View

Gen4 SlimSAS x8 (SFF-8654) to *2 PCIe Drive Receptacle (SFF-8639) Cable (for U.2, 1x4 only)

Part#: SLSP-8X-39X2F4-0.5M

Lead Time: 6 Weeks



Quick View

Gen4 SlimSAS x8 (SFF-8654) to *2 PCIe Drive Receptacle (SFF-8639) Cable (for U.2, 2x2 only)

Part#: SLSP-8X-39X2F2-0.5M

Lead Time: 6 Weeks

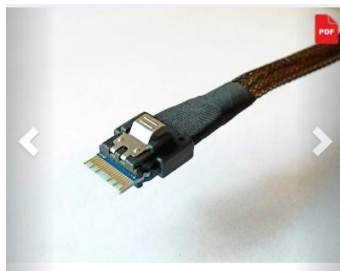


Quick View

Gen4 SlimSAS x8 (SFF-8654) to *2 PCIe Drive Receptacle (SFF-8639) for U.3 Cable (1x4 Only)

Part#: SLSP-8X-39X2U3-0.5M

Lead Time: 6 Weeks

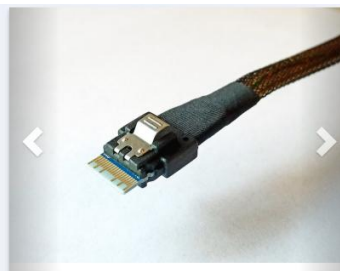


Quick View

Slimline x4 (SFF-8654) Str. 38-pin to Int. MiniSAS HD (SFF-8643) x4 Str. 36-pin Cable

Part#: SLSP-4X-43X1-1M

Lead Time: 6 Weeks

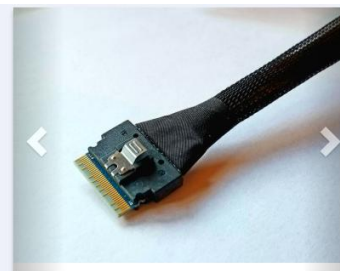


Quick View

Slimline x4 (SFF-8654) Str. 38-pin to Slimline x4 (SFF-8654) Str. 38-pin Cable

Lead Time: 6 Weeks

Part # Choose an option



Quick View

Slimline x8 (SFF-8654) Str. 74-pin to Slimline x8 (SFF-8654) Str. 74-pin Cable

Lead Time: 7 Weeks

Part # Choose an option



[Quick View](#)

SlimSAS X8 (SFF-8654) 74P to *2 MiniSAS HD (SFF-8644) Cable

Part#: SLS-8X-44X2M-1M

In Stock

1.9 PCIe Gen 4 SFF-8644 Cables

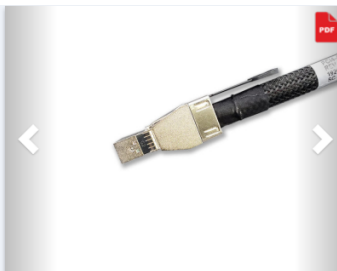


[Quick View](#)

PCIe Gen4 Ext. HD (SFF-8644) to Ext. HD (SFF-8644) Cable

Lead Time: Please Call

Part # [Choose an option](#)



[Quick View](#)

PCIe Gen4 Ext. HD (SFF-8644/SFF-8674) to Ext. HD (SFF-8644/SFF-8674) Cable

Part#: PCI4-4444UWT-1M

In Stock



[Quick View](#)

SlimSAS X8 (SFF-8654) 74P to *2 MiniSAS HD (SFF-8644) Cable

Part#: SLS-8X-44X2M-1M

In Stock

1.10 PCIe (PCI Express) Cables

Part #	Description	Avail.	Min. Qty.
PCle-16x-1m	External PCIe (PCI Express) x16 - Madison 28AWG, 1 meter	2 -3 wks	1
PCle-16x-2m	External PCIe (PCI Express) x16 - Madison 28AWG, 2 meter	2 -3 wks	1
PCle-16x-3m	External PCIe (PCI Express) x16 - Madison 28AWG, 3 meter	2 -3 wks	1
PCle-16x-4m	External PCIe (PCI Express) x16 - Amphenol	2 -3 wks	1

	24AWG, 4 meter		
PCIe-16x-5m	External PCIe (PCI Express) x16 - Amphenol 24AWG, 5 meter	2 -3 wks	1
PCIe-4x-1m	External PCIe (PCI Express) w/x4 connectors, 1 meter	2 -3 wks	1
PCIe-4x-3m	External PCIe (PCI Express) w/x4 connectors, 3 meter	2 -3 wks	1
PCIe-4x-5m	External PCIe (PCI Express) w/x4 connectors, 5 meter	2 -3 wks	1
PCIe-8x-1m	External PCIe (PCI Express) x8 - Madison 28AWG, 1 meter	2 - 3 wks	1
PCIe-8x-2m	External PCIe (PCI Express) x8 - Madison 28AWG, 2 meter	2 - 3 wks	1
PCIe-8x-3m	External PCIe (PCI Express) x8 - Madison 28AWG, 3 meter	2 - 3 wks	1
PCIe-8x-4m	External PCIe (PCI Express) x8 - Amphenol 24AWG, 4 meter	2 - 3 wks	1
PCIe-8x-5m	External PCIe (PCI Express) x8 - Amphenol 24AWG, 5 meter	2 - 3 wks	1
SA-PE4x-2M	External PCIe (PCI Express) w/x4 connectors, 2 meter	2 -3 wks	1

1.11 PCIe Gen3 Cables

Part #	Description	Avail.	Min. Qty.
H56272-0011	Ext. HD (SFF-8644) to Ext. HD (SFF-8644), 14G 30AWG PCIe wire 9-p ...	3 weeks	1
PCI-43-4343UW-0.5M-N2	Int. HD (SFF-8643) 4i to *2 Int. HD (SFF-8643), 2 lanes connected ...	Call	10
PCI-43-4343UW-1M-N2	Int. HD (SFF-8643) 4i to *2 Int. HD (SFF-8643), 2 lanes connected ...	Call	10
PCI-43-4343W-14in	Int. HD (SFF-8643) white body to *2 Int. HD (SFF-8643) white body ...	3 Weeks	1
PCI-43-4343W-22in-N2	Int. HD (SFF-8643) white body to *2 Int. HD (SFF-8643) white body ...	3 weeks	1
PCI-4339B-0.5M-N2	Int. HD 4i (SFF-8643) black body to	Call	1

	*1 Gen 3 Multilink PCIe (SFF- ...		
PCI-4339B-1M-N2	Int. HD 4i (SFF-8643) black body to *1 Gen 3 Multilink PCIe (SFF- ...	Call	1
PCI-4339B-2M-N2	Int. HD 4i (SFF-8643) black body to *1 Gen 3 Multilink PCIe (SFF- ...	Call	1
PCI-4339B-HDD-0.5M-N2	*2 Int. HD 4i (SFF-8643) black body 2 lanes each 0 & 1 to *1 Gen ...	Call	1
PCI-4339B-HDD-1M-N2	*2 Int. HD 4i (SFF-8643) black body 2 lanes each 0 & 1 to *1 Gen ...	Call	1
PCI-4339B-HDD-2M-N2	*2 Int. HD 4i (SFF-8643) black body 2 lanes each 0 & 1 to *1 Gen ...	Call	1
PCI-4339I-0.5M-N2	Int. HD (SFF-8643) black body to Multilink 68P (SFF-8639) w/15P S ...	In stock	1
PCI-4339I-1M-N2	Int. HD (SFF-8643) black body to Multilink 68P (SFF-8639) w/15P S ...	In Stock	1
PCI-4339I-2M-N2	Int. HD (SFF-8643) black body to Multilink 68P (SFF-8639) w/15P S ...	In stock	1
PCI-4339UW-1M-N2	Int. HD (SFF-8643) White body to Multilink 68P (SFF-8639), 14G 30 ...	3 Weeks	1
PCI-4339W-1M-N2	Int. HD (SFF-8643) white body to Multilink 68P (SFF-8639), 14G 30 ...	3 weeks	1
PCI-4339i-HDD-0.5M-N2	*2 Int. HD (SFF-8643) Lane 0&1 of each to *1 PCI Drive (SFF-8639) ...	3 Weeks	1
PCI-4339i-HDD-1M-N2	*2 Int. HD (SFF-8643) Lane 0&1 of each to *1 PCI Drive (SFF-8639) ...	3 Weeks	1
PCI-4343UW-0.5M-N2	Int. HD (SFF-8643) white body 4i to Int. HD (SFF-8643) white body ...	Call	10
PCI-4343UW-1M-N2	Int. HD (SFF-8643) white body 4i to Int. HD (SFF-8643) white body ...	Call	10
PCI-43X8-43X2i-0.5M-N2	Int. HD (SFF-8643) X8 72P Black body to *2 36P (SFF-8643) X4 Bla ...	4 weeks	5
PCI-43X8-44X2A-1M-S2N2	Int. HD (SFF-8643) X8 72P black body to *2 Ext. HD (SFF-8644) 36P ...	4 Weeks	5
PCI-43X8-44X2B-1M-S2N2	Int. HD (SFF-8643) X8 72P black body to *2 Ext. HD (SFF-8644)	4 Weeks	5

	36P ...		
PCI-43X8-44X2U-1M-S2N2	Int. HD (SFF-8643) X8 72P black body to *2 Ext. HD (SFF-8644) 36P ...	4 weeks	5
PCI-44-4444UW-1M-S2	Ext. HD (SFF-8644) to *2 Ext. HD (SFF-8644), 14G 30AWG PCIe wire ...	Call	1
PCI-4439AW-1M-S2	Ext. HD (SFF-8644) to Multilink 68P (SFF-8639), 14G 30AWG PCIe wi ...	3 weeks	1
PCI-4439B-0.5M-S2	Ext. HD (SFF-8644) w/EMI shield to *1 Gen 3 Multilink PCIe (SFF-8 ...	Call	1
PCI-4439B-1M-S2	Ext. HD (SFF-8644) w/EMI shield to *1 Gen 3 Multilink PCIe (SFF-8 ...	Call	1
PCI-4439B-2M-S2	Ext. HD (SFF-8644) w/EMI shield to *1 Gen 3 Multilink PCIe (SFF-8 ...	Call	1
PCI-4439B-HDD-0.5M-S2	*2 Ext. HD (SFF-8644) w/EMI shield 2 lanes each 0 & 1 to *1 Gen 3 ...	Call	1
PCI-4439B-HDD-1M-S2	*2 Ext. HD (SFF-8644) w/EMI shield (2 lanes each 0 & 1) to *1 Gen ...	Call	1
PCI-4439B-HDD-2M-S2	*2 Ext. HD (SFF-8644) w/EMI shield (2 lanes each 0 & 1) to *1 Gen ...	Call	1
PCI-4439UW-1M-S2	Ext. HD (SFF-8644) to Multilink 68P (SFF-8639), 14G 30AWG PCIe wi ...	3 weeks	1
PCI-4439UW-HDD-1M-S2	*2 Ext. HD (SFF-8644) w/EMI shield (2 lanes each 0 & 1) to *1 Gen ...	Call	1
PCI-4443UWT-1M-S2N2	Ext. HD (SFF-8644) to Int. HD (SFF-8643), 14G 30AWG PCIe wire 9-p ...	Call	1
PCI-4443W-1M-S1N2	Ext. HD 4x (SFF-8644) to Int. HD 4i (SFF-8643), 30AWG 9 pairs + 3 ...	Call	1
PCI-4444-1M-S2	Ext. HD (SFF-8644) to Ext. HD (SFF-8644), 14G 30AWG PCIe wire 9-p ...	3 weeks	1
PCI-4444AA-1M-S2	Ext. HD (SFF-8644) to Ext. HD (SFF-8644), 14G 30AWG PCIe wire 9-p ...	3 weeks	1
PCI-4444ASW-1M-S2	Ext. HD (SFF-8644) white pull latch 4x to Ext. HD (SFF-8644) whit ...	Call	1

PCI-4444AW-.5M-S2	(Ext. HD (SFF-8644)w/EMI Shield to Ext. HD (SFF-8644)w/EMI Shield ...	Call	1
PCI-4444AW-1M-S2	Ext. HD (SFF-8644) w/white tab - Ext. HD (SFF-8644) w/white tab G ...	Call	1
PCI-4444AW-2M-S2	(Ext. HD (SFF-8644)w/EMI Shield to Ext. HD (SFF-8644)w/EMI Shield ...	Call	1
PCI-4444S-1M-S2	Ext. HD (SFF-8644) to Ext. HD (SFF-8644), 14G 30AWG PCIe wire 9-p ...	Call	1
PCI-4444US-1M-S2	Ext. HD (SFF-8644) w/white tab - Ext. HD (SFF-8644) w/Green tab G ...	4 Weeks	1
PCI-4444USW-1M-S2	Ext. HD (SFF-8644) to Ext. HD (SFF-8644), 14G 30AWG PCIe wire 9-p ...	Call	1
PCI-4444UW-1M-S2	Ext. HD (SFF-8644) to Ext. HD (SFF-8644), 14G 30AWG PCIe wire 9-p ...	Call	1
PCI-4444UWT-1M-S2	Ext. HD (SFF-8644) to Ext. HD (SFF-8644), 14G 30AWG PCIe wire 9-p ...	Call	1
PCI-4444W-1M-S2	Ext. HD 4x (SFF-8644) to Ext. HD 4x (SFF-8644), 30AWG 9 pairs + 3 ...	Call	1

1.12 PCIe Gen3 Adapters

Part #	Description	Avail.	Min. Qty.
PCI-AD-4339-2x2	Gen3, Dual SFF-8643 - SFF-8639, PCIe/NVMe multi-purpose T-card. ...	In Stock	1
PCI-AD-4439-04-SDP	Gen 3, PCIe dual purpose T-card. T-Card supports both 1x4 and 2x ...	In Stock	1
PCI-AD-4439-04	SFF-8644 - U.2 PCIe Gen3 1x4 T-Card. Megtron6 on all high speed I ...	Call	1
PCI-AD-M243-04-2280	PCIe Gen 3, x4, M.2 - SFF-8643	In Stock	1

	passive adapter. All side band sig ...		
PCI-AD-M243-04	PCIe Gen 3, x4, M.2 - SFF-8643 passive adapter. All side band sig ...	3 - 4 Weeks	1
PCI-AD-U2M2-04	PCIe Gen3 U.2 - M.2 adapter. Supports M.2 lengths up to 110mm an ...	In Stock	1
PCI-AD-x439-01	Gen 3, PCIe x4 - SFF-8639 Adapter. Included with the kit is an a ...	In Stock	1
PCI-AD-x439-01H	New Gen3, x4 - SFF-8639 PCIe horizontal adapter ...	3-4 Weeks	1
PCI-AD-x439-01HF	New Gen3, x4 - SFF-8639 PCIe horizontal adapter ...	3-4 Weeks	1
PCI-AD-x443-01I	Gen 3, x4 internal SFF-8643 based adapter. Megtron6 dielectric on ...	In Stock	1
PCI-AD-x444-01E	x4 Gen3 PCIe slot - SFF-8644 passive adapter. 1/2 height PCI bra ...	In Stock	1
PCI-AD-x444-x443A	PCIe Gen3 1x4 SFF-8644 - 1x4 SFF-8643 Adapter	In Stock	1
PCI-AD-x4M2-04	PCIe Gen3 x4 slot - M.2 adapter. Support up to 110mm M.2 devices ...	In Stock	1

1.13 PCIe Gen3 24 bay JBOF



Features

- Operates at up to 512Gb/s at PCIe Gen 3 speeds



- 24 NVMe drive hot swappable
- Hot swap JBOD hot controller
- Hot swappable Fan
- Hot swappable power supply
- Chassis monitoring
- OEM bezel /w filter optional by request
- Can apply for NEBS Class 2 or Class 3

Specifications

Form Factor: EIA-310D 2U form factor

Dimensions: 2U 19" 460mm (W) x 3.5" 88mm (H) x 14" 355mm (D)

Power: 800W 1+1 80+ Gold redundant power supply

Operating Temperature: 5C to 35C

Storage Temperature: -10C to 85C

Operating Humidity: 10% to 90% relative humidity non-condensing

Storage Humidity: 5% to 95% relative humidity non-condensing

PCIe Switch: PLX PEX9781 8.0 GT/s 81-lane PCIe

****Drive tray color may vary from the photo

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
PCI-ENC8G-024U	The PCIe x16 Gen 3 2U-24bay JBOD integrates Avago Technologies Ex ...			4-5 Weeks	1

1.14 PCIe Gen3 24 port 1x4 Test Box



24-port 2.5" PCIe/NVMe Test Enclosure

- 24 tool-less, 2.5", drive fixtures w/individual, replaceable interposers.

Fixtures fit all thicknesses of 2.5" HDD/SSD. (2 fixture versions are available)

- Individual activity LED on each slot

- Individual power on/off control via CLI through USB/Telnet/Ethernet

- Individual voltage/current measurement via CLI through USB/Telnet/Ethernet

- Dual, PLX9781 based Capella 2 switch boards configured to 1 or 2 x16 in and 12, x4 out with 3 different modes of operation. The Capella 2 silicon can support both SRIS and hot plug when enabled. Each switch board w/x16 in connects to 12, x4 SFF based PCIe/NVMe devices. PCIe/NVMe switches are configured to x16 or less in. This means that x4 or x8 or x16 in will automatically connect to the 12, x4 SFF devices.

- 19" rack mountable configuration

- (4) 4" 65cfm cooling fans

- Available for Gen1, Gen2 and Gen3 PCIe/NVMe

- Box dimensions: 16" x 16" x 19"

**Supports surprise hot plug in both Windows and Linux

**Must have m/b that supports PCIe native mode OS in the Bios and running Server 2012 R2 or higher (no desktop versions)

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
DTB-24PCI-G3A	- 24 tool-less, 2.5", drive fixtures w/individual, replaceable in ...			4-5 Weeks	1

1.15 PCIe Gen3 12 port 2x2 Test Box



- 12 tool-less, 2.5", drive fixtures w/individual, replaceable interposers. Fixtures fit all thicknesses of 2.5" HDD/SSD. (2 fixture versions are available)
- Individual activity LED on each slot
- Individual power on/off control via CLI through USB/Telnet/Ethernet
- Individual voltage/current measurement via CLI through USB/Telnet/Ethernet
- Dual, PLX9765 based Capella 2 switch boards configured to x16 in and 12, x4 out (only x2 per/x4 lane is used). The Capella 2 silicon can support both SRIS and hot plug when enabled. Each switch board w/x16 in connects to 12, x4 SFF based PCIe/NVMe devices. PCIe/NVMe switches are configured to x16 or less in. This means that x4 or x8 or x16 in will automatically connect to the 12, x2 SFF devices. Primary ports connect to 1 switch board while the secondary ports connect to the other switch. Simultaneously communicate with 12 primary x2 ports and 12 secondary x2 from different hosts.
- 19" rack mountable configuration
- (4) 4" 65cfm cooling fans
- Available for Gen1, Gen2 and Gen3 PCIe/NVMe

- Box dimensions: 11" x 16" x 19"

**Supports surprise hot plug in both Windows and Linux

**Must have m/b that supports PCIe native mode OS in the Bios and running Server 2012 R2 or higher (no desktop versions)

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
DTB-12PCI-G3A-2x2	12 port PCIe Gen3 2x2 Test Box			Call	1

1.16 PCIe Gen3 PLX based Host Cards



PCIe x16/x8 Gen 3 Switch-based Host Cards

PCIe x16 Gen 3 switch-based cable adapter integrates Broadcom Technologies ExpressFabric PEX9733/9716 Capella 2, a fully non-blocking and low-latency, 33/16-lane, 9-Port PCI Express Gen 3 switch.

Features

- Operates at up to 128Gb/s at PCIe Gen 3 speeds
- Requires no additional software
- Half-card form factor



- Switch-based board supports:
 - PCIe Gen3 x16 for upstream port
 - PCIe Gen3 x16 for downstream port **OR**
 - PCIe Gen3 x8 for two downstream ports **OR**
 - PCIe Gen3 x4 for four downstream ports

Specifications

Form Factor: PCIe x16 half-height, half-length add-in card

Dimensions: 6.14" x 2.89" (156mm x 73.4mm)

Power: Maximum 15W for Fanout Mode

Connectors: SFF-8644 or SFF-8643

Operating Temperature: 0C to 50C

Storage Temperature: -40C to 85C

Operating Humidity: 10% to 90% relative humidity non-condensing

Storage Humidity: 5% to 95% relative humidity non-condensing

PCB: PCI Express add-in card standard

Thickness .063" +/- 0.008" (1.6mm +/- 0.2mm)

PCIe Switch: PLX PEX9733 Capella 2

8.0 GT/s 32-lane PCI Express Gen 3 Switch

DMA Controller

SSC Isolation Support

**Supports surprise hot plug in on downstream ports in both Windows and Linux

**Must have m/b that supports PCIe native mode OS in the Bios and running Server 2012 R2 or higher (no desktop versions)

Part #	Description	Avail.	Min.
--------	-------------	--------	------

			Qty.
PCI-AD-HBx8-E	PCIe x8 Gen 3 Switch-based Host Adapter w/ 4 SFF-8644 connections ...	Call	1
PCI-AD-HBx8-I	PCIe x8 Gen 3 Switch-based Host Adapter w/ 4 SFF-8643 connections ...	Call	1
PCI-AD-x16HE-PS	PCIe x16 Gen 3 Switch-based Host Adapter w/ 4 SFF-8644 connection ...	4 Weeks	1
PCI-AD-x16HE	PCIe x16 Gen 3 Switch-based Host Adapter w/ 4 SFF-8644 connection ...	3-4 Weeks	1
PCI-AD-x16HI	PCIe x16 Gen 3 Switch-based Host Adapter w/ 4 SFF-8643 connection ...	3-4 Weeks	1

1.17 PCIe Gen3 Microsemi Host Card

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
PCI-AD-x16HE-M	Microsemi PM8532 based external (internal available) Gen3, PCIe/N ...			Call	1

1.18 PCIe 8 bay Direct Attached JBOF

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
PCI-ENC8G-08A	PCIe/NVMe, Gen3, 2.5" 8-slot vertical drive enclosure *300w autosw ...			Call	1

1.19 PCIe Gen3 Switch

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
PCI-SWGen3-81U	PCIe Gen3 Switch board using PEX9781 Capella 2 Gen3 Switch chip ...			3-4 Weeks	1

1.20 Gen3/Gen4 OCUlink Cables

NEW OCUlink X4 and X8 Cable Assemblies!!

PCIe Gen 3 and PCIe Gen 4 capable

SAS3 and SAS4 capable

The newest rollout of next generation cables to support Gen 3 and future Gen 4 PCIe and SAS4 storage equipment applications. Up to 24Gb/s supported speeds and the newest ultra low profile connectors allow users the greatest flexibility and highest density applications in the storage industry. Our innovative designs will help your customers achieve the shortest time to market while guaranteeing a robust and uniquely built product capable of taking their solutions to the next level. Call us for more information!

Part #	Description	Avail.	Min. Qty.
PCI-43X8-12X2-1M-N2	X8 MiniSAS HD (SFF-8643) Str. 72P to 2x OCUlink X4 Str. 42P, 34AWG ...	5 Weeks	20
RSC42-0369	OCUlink X4 Str. 42P to 4x 7-pin SATA, 32AWG, 0.5M	6 Weeks	25
RSC42-0372	OCUlink X4 Str. 42P to OCUlink X4 Str. 42P, 34AWG, 24Gb/s, 0.5M	7 Weeks	25
RSC42-0373	OCUlink X4 Str. 42P to OCUlink X4 Str. 42P, 34AWG, 24Gb/s, 1M	7 Weeks	25
RSC80-0037	OCUlink X8 Str. 80P to OCUlink X8 Str. 80P, 34AWG, 24Gb/s, 0.5M	6 Weeks	25
RSC80-0038	OCUlink X8 Str. 80P to OCUlink X8 Str. 80P, 34AWG, 24Gb/s, 1M	6 Weeks	25
RSC80-0039	OCUlink X8 Str. 80P to 2x OCUlink X4 Str. 42P, 34AWG, 24Gb/s, 0.5 ...	6 Weeks	25
RSC80-0040	OCUlink X8 Str. 80P to 2x OCUlink X4 Str. 42P, 34AWG, 24Gb/s, 1M	6 Weeks	25
RSC80-0045	OCUlink X8 Str. 80P to 2x Int. MiniSAS HD (SFF-8643) X4 Str. 36P, ...	6 Weeks	25
RSC80-0046	OCUlink X8 Str. 80P to 2x Int. MiniSAS HD (SFF-8643) X4 Str. 36P, ...	6 Weeks	25

1.21 Gen3/Gen4 Slimline Cables

NEW Slimline X4 and X8 Cable Assemblies!!

PCIe Gen 3 and PCIe Gen 4 capable

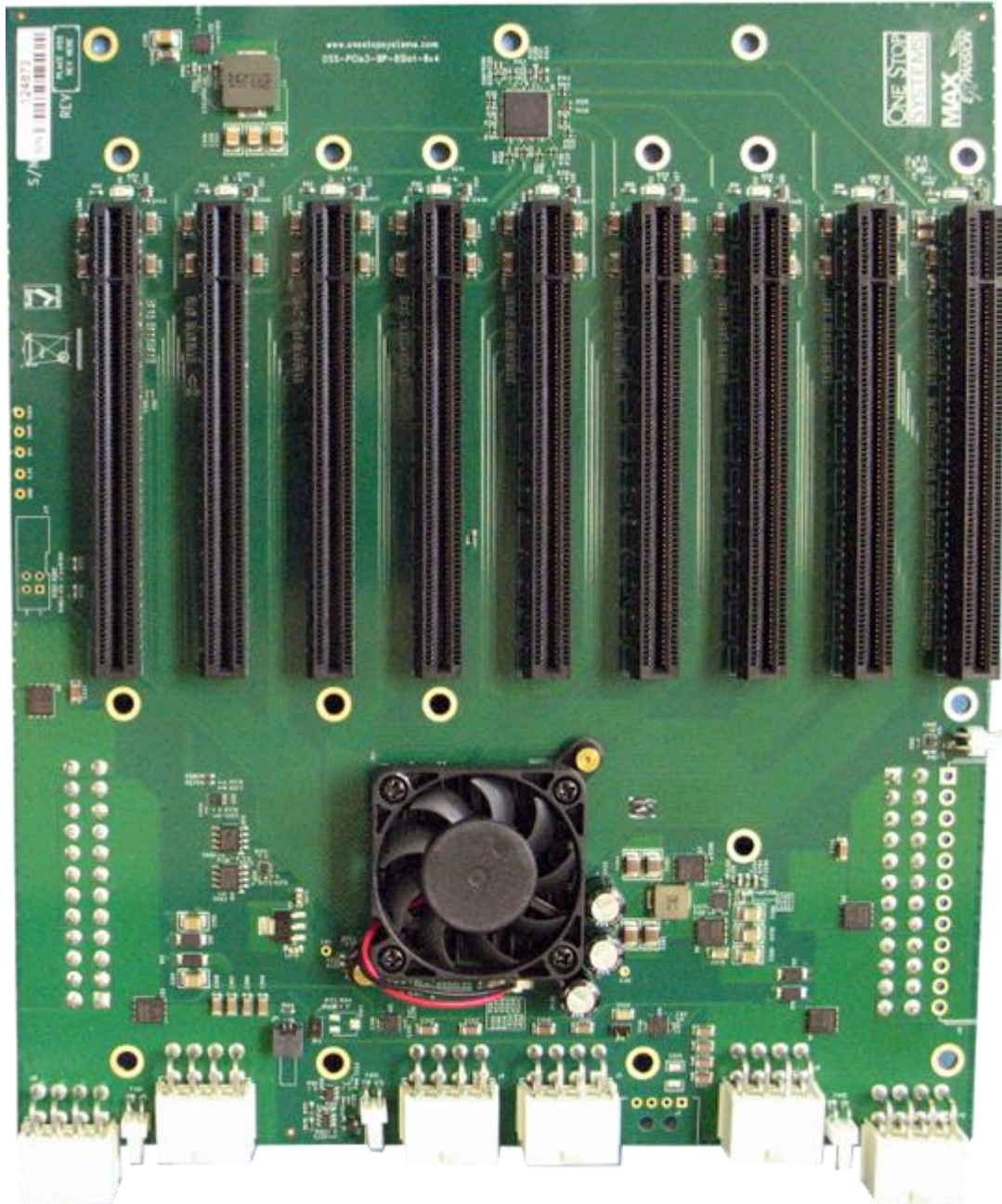
SAS3 and SAS4 capable

The newest rollout of next generation cables to support Gen 3 and future Gen 4 PCIe and SAS4 storage equipment applications. Up to 24Gb/s supported speeds and the newest ultra low profile connectors allow users the greatest flexibility and highest density applications in the storage industry. Our innovative designs will help your customers achieve the shortest time to market while guaranteeing a robust and uniquely built product capable of taking their solutions to the next level. Call us for more information!

Part #	Description	Avail.	Min. Qty.
RSC38-0459	Slimline X4 Str. 38P to Int. MiniSAS HD (SFF-8643) X4 Str. 36P, 3 ...	5 Weeks	25
RSC38-0476	Slimline X4 Str. 38P to Slimline X4 Str. 38P, 32AWG, For SAS4 24G ...	6 Weeks	25
RSC38-0477	Slimline X4 Str. 38P to Slimline X4 Str. 38P, 32AWG, For SAS4 24G ...	6 Weeks	25
RSC74-0746	Slimline X8 Str. 74P to 2x Slimline X4 Str. 38P, 32AWG, 24Gb/s, 1 ...	6 Weeks	25
RSC74-0771	Slimline X8 Str. 74P to Slimline X8 Str. 74P, 32AWG, For SAS4 24G ...	6 Weeks	25
RSC74-0772	Slimline X8 Str. 74P to Slimline X8 Str. 74P, 32AWG, For SAS4 24G ...	6 Weeks	25

(二) PCIe 扩展专用产品线

2.1 Expansion Backplanes



We offer expansion backplanes with anywhere from one to twenty slots. Below are our standard expansion backplanes. Click on a product to download the datasheet.



ExpressBox 3T Backplane - 01-07015-01



Expansion Backplane, 5 PCIe x16 slots (457)



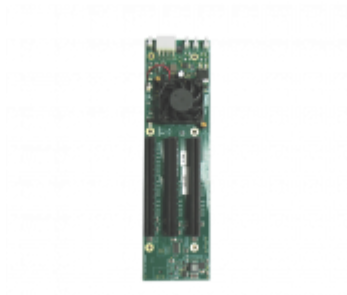
Expansion Backplane, 8 PCIe x8 slots (452)



Expansion Backplane, One PCIe x16 3.0 slot (412)



PCIe x8 1.0 Expansion Backplane (184)



Expansion Backplane, 2 PCIe x8 3.0 slots (419)



Expansion Backplane, 8 PCIe x4 slots (416)



PCIe x16 3.0 Expansion Backplane (2019)



Expansion Backplane, 2 PCIe x4 & 1 PCIe x8 slots (436)



Expansion Backplane, 5 PCIe x4 slots (420)

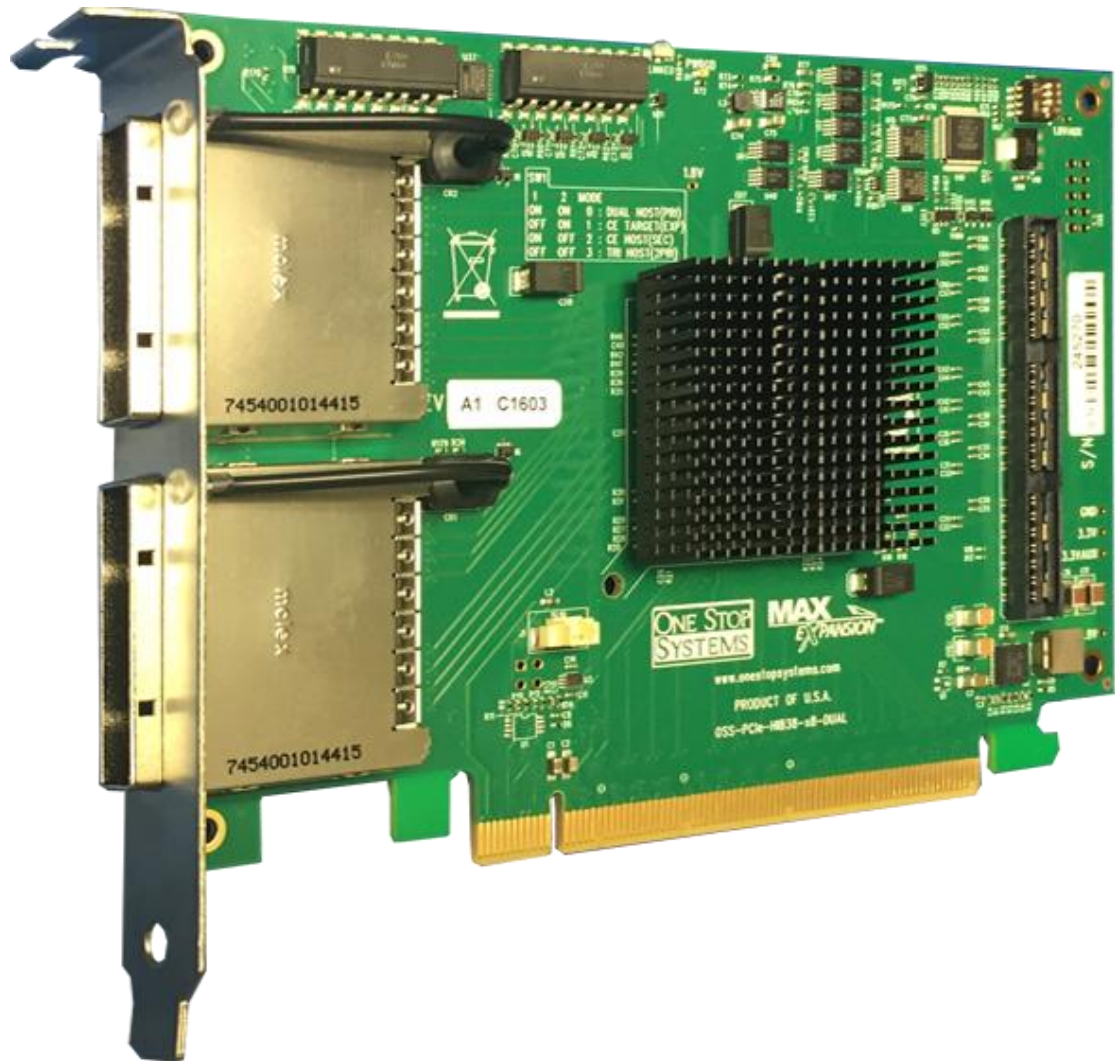


Expansion Backplane, One PCIe x16 3.0 slot (440)



Expansion Backplane, One PCIe x16 3.0 slot (427)

2.2 Cable Adapters



Our cable adapter cards come in various sizes, bandwidths and connections and can be purchased in both host and target mode. Below are our standard cable adapters. Click on a product to download the datasheet.



PCIe x16 Gen3 Host Cable Adapter



32-bit PCI Host Card for Desktop - PCIHIF68



32-bit PCI Expansion Card - PCIEIF68



PCIe (x8) Gen 2 Host & Expansion Interface Card - PEHIFX8G2



PCIe (x16) Host & Expansion Interface Card - 01-05018-00



PCIe (x1) Host Card for Desktop - PEHIFX1



ExpressCard/34 Host Card for Laptop - EC34



PCIe x4 Gen1 Embedded Cable Adapter



Switch-based Cable Adapter, PCI Express x4 Gen 2 Host



PCIe x1 Gen2 Host Cable Adapter



PCIe x4 Gen2 Host Cable Adapter



PCIe x8 Gen2 Host Cable Adapter



PCIe x16 Gen2 Host Cable Adapter



PCle x16 Gen3 Cable Adapter



PCle x8 Gen3 Dual Port Cable Adapter



PCle x8 Gen3 Quad Port Cable Adapter



PCle x8 Gen3 Embedded Cable Adapter



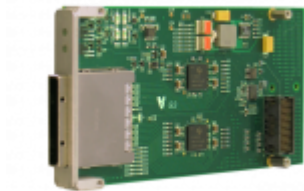
UE-1008 8-Port USB 3.0 Expansion Card



CardBus Host Card for Laptop - CBHIF



Thunderbolt 2 Option Card



XMC x8 Gen 2 Host Cable Adapter



Cable Adapter Bracket Only



Thunderbolt 1 Option Card

2.3 PCIe Cables

Saniffer



We offer multiple bandwidths for PCIe cables in a wide variety of lengths. Below are our standard cables. Click on a product to download the datasheet.



PCI Cable



PCIe x8 Active Optical Cable



PCIe x4 to x8 cable



PCIe x16 Cable



PCIe x8 Cable



PCIe x4 Cable



PCIe x1 Cable



PCIe x1 to x4 cable



Thunderbolt



PCIe x4 Fiber Optic Cable

2.4 High Speed PCIe Desktop Expansion Enclosures



These light weight, whisper-quiet appliances offer performance gains to any laptop or workstation via either Thunderbolt or PCIe high speed connection



µCUBE3 METAL expansion enclosure, 5 PCIe x4 slots



CUBE2 METAL expansion enclosure, 5 PCIe slots



CUBE3 METAL expansion enclosure, 8 PCIe x8 slots



Gen 3 PCIe Desktop Expansion Tower Enclosure



iCUBE expansion enclosure, one PCIe x16 Gen3 slot



nanoCUBE expansion enclosure, one PCIe x8 3.0 slot



μCUBE2 expansion enclosure, 3 PCIe 3.0 slots

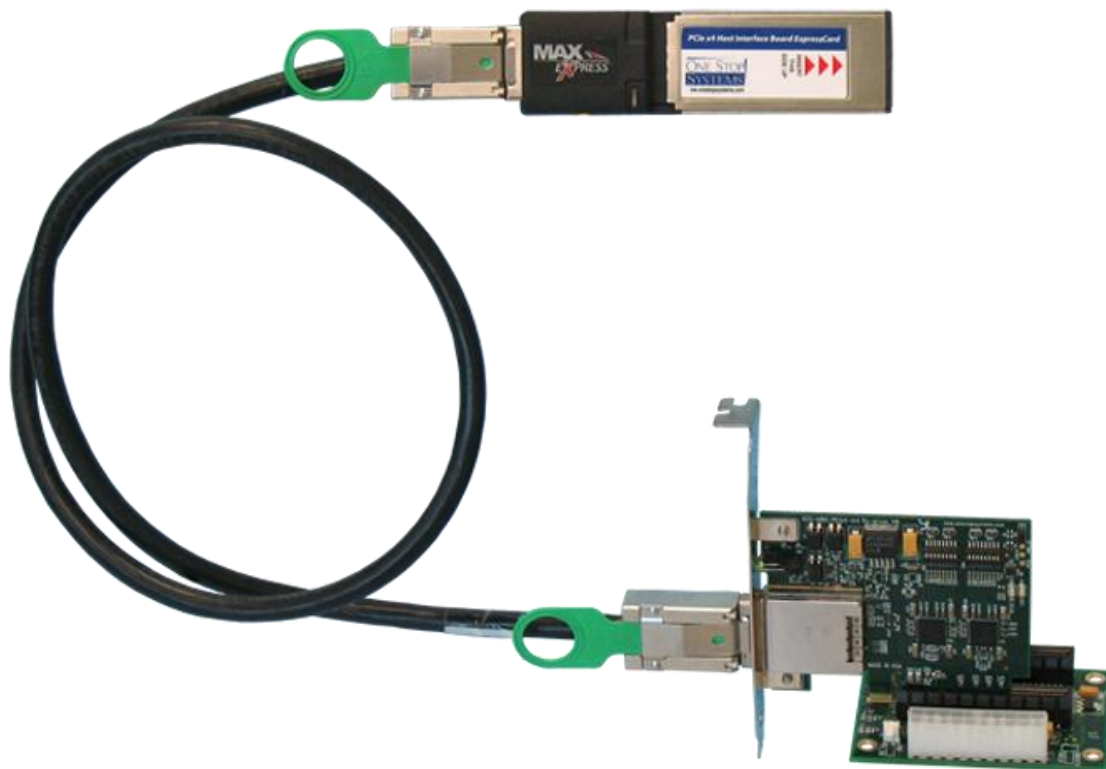


μCUBE expansion enclosure, one PCIe x16 3.0 slot



CUBE expansion enclosure, 1-2 PCIe Slots

2.5 PCIe Expansion Kits



Our Expansion kits consist of two io cards and a cable that connects a motherboard system downstream to one or multiple io points. Below are our standard expansion kits. Click on a product to download the datasheet.



PCI Express Expansion Link Kit



EB7NE-X8G2



CB364NE



P7NE



PCI13NE68



PCIe x4 2-slot Target Kit (3501)



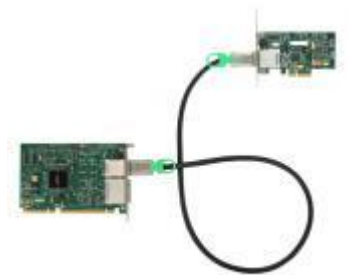
PCIe x4 Gen1 to CPCle Expansion Kit (6000)



PCIe x4 cPCI ELB Expansion Kit (4500)



PCle x4 Gen2 Host to ECA Kit (2050)



PCle x4 Gen 2 Host to ELB Kit (1500)



PCle x4 Expansion Kit (3500)



PCle x8 Gen 2 Host to ELB Kit (7500)



PCIe x8 Gen 2 Host to Target Kit (8000)



PCIe x16 Gen 2 Host to Target Kit (9000)



PCIe x16 Gen 3 Host to Target Kit (3810)

2.6 Rackmount Expansion



ExpressBox 3400



ExpressBox 2400



ExpressBox 4 (1U)



ExpressBox 16 Basic



ExpressBox 16 Smart



ExpressBox 3450



ExpressBox 2200



ExpressBox 3200



4U Value GPU Accelerator System



4U Value 16-Slot Expansion System



3U 32-slot RM Expansion Enclosure, PCIe 3.0



4U 32-slot RM Expansion Enclosure, PCIe 3.0



2U 4-slot/8-slot Expansion Enclosure, PCIe 3.0



4U 19-slot RM Expansion Enclosure, PCIe 2.0

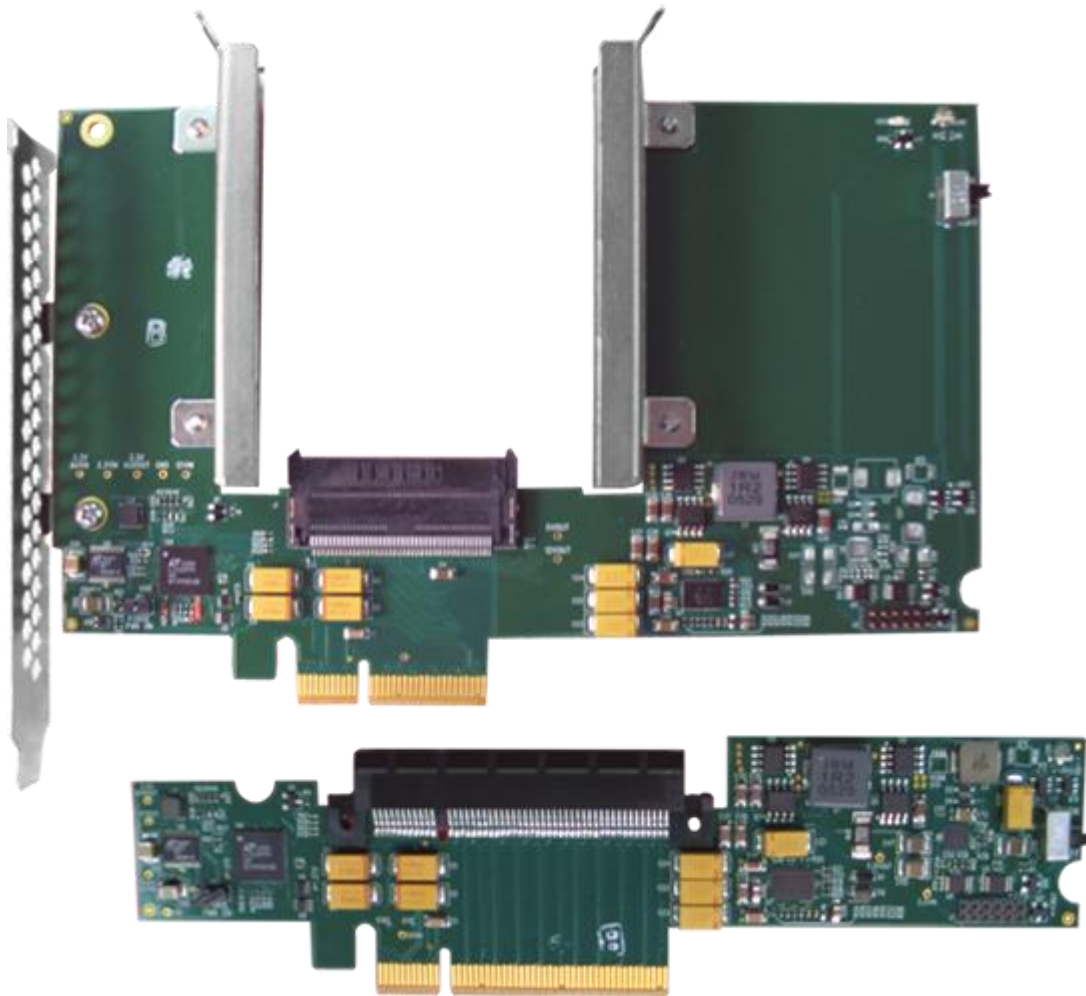


3U 16-slot RM Expansion Enclosure, PCIe 3.0

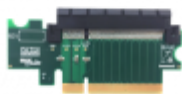


1U 2-slot/4-slot RM Expansion Enclosure, PCIe 3.0

2.7 NVMe Adapter Card and PCIe Riser Card



We offers two special cards specifically designed to make testing a high volume of other cards quick and easy. The first card is the NVMe Solid State Drive (SSD) Adapter card. This card can be very useful for testing NVMe SSDs. The second card is a PCIe riser card, which can be used for testing any PCIe card. When used in the Flash Storage Array Test System (FSA-TS), these two cards can test up to 32 NVMe SSD or PCIe cards at once.



Passive PCIe Slot Saver



PCIe 3.0 to NVMe Adapter Card



PCIe Riser

2.8 PCIe Switches

2.10.1 x1 PCIe Switch



The x4 PCIe Switch provides one PCIe x1 upstream port fans out to seven different x1 downstream ports supporting PCIe devices or expansion systems.

2.10.2 x4 PCIe Switch



The x4 PCIe Switch provides one x16 and one x4 PCIe upstream ports that fan out to 8 different x4 downstream ports, supporting PCIe devices or expansion systems.

2.9 Flash Storage Expansion



Add hundreds of TB's of storage and deliver millions of IOPS with NAND Flash. The ideal platforms for high-speed data recording and processing

2.10.1 4U Value 16-Slot Expansion System



The 4UV supports 2 PCIe 3.0 x16 host connections to 16 PCIe 3.0 x8 slots with two 1m cables to the host server. The system supports 16 full length PCIe add-in cards (AICs) such as NVMe flash and industrial I/O. Two fan choices allow for high-power add-in card cooling up to 100W per AIC or a set-and-forget manual speed control using PWM fans when lower power AICs and quiet operation are required. Two 2000W power supplies provide redundant hot-swap system power.

2.10.2 1U Flash Storage Expansion



Pre-installed with four PCIe NVMe Flash boards and connects to the host server through PCIe x16 Gen3 connection.

2.10.3 2U Flash Storage Expansion



Pre-installed with eight PCIe NVMe Flash boards and connects to the host server through PCIe x16 Gen3 connection.

2.10.4 2xOU Flash Storage Expansion



Provides up to 212TB of fast Flash storage for up to three servers and is designed to meet Open Compute Project specifications.

2.10.5 3U Flash Storage Expansion



Pre-installed with thirty-two PCIe NVMe Flash boards and connects to the host server through PCIe x16 Gen3 connection.

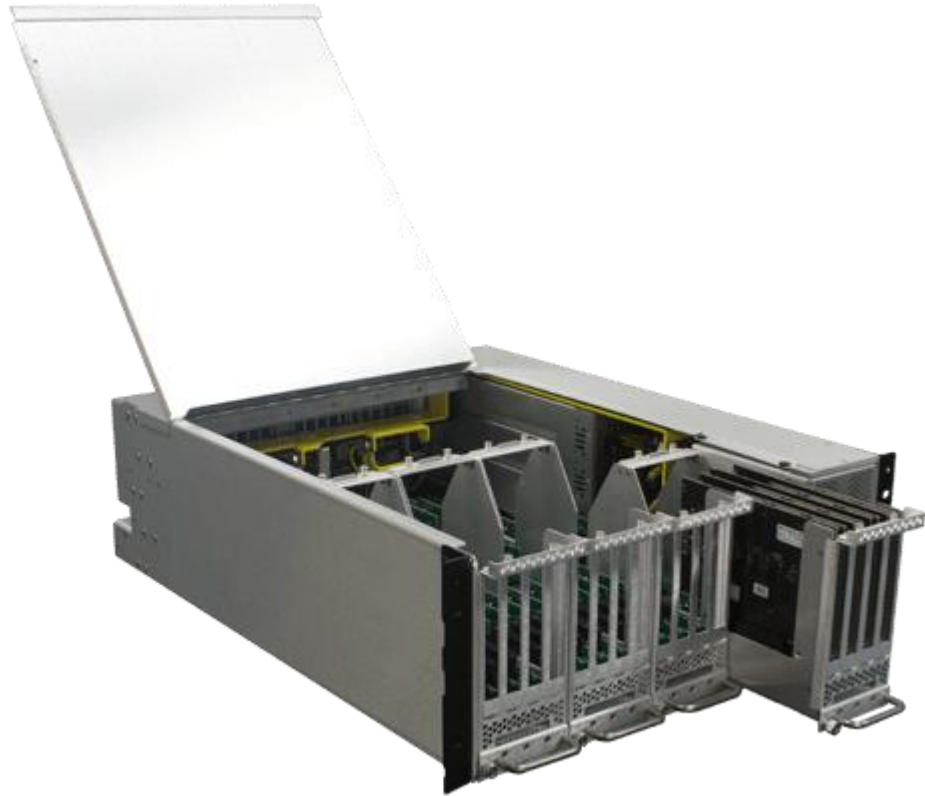
2.10.6 4U Flash Storage Expansion





Pre-installed with thirty-two PCIe NVMe Flash PCIe boards and connects to the host server through PCIe x16 Gen3 connection.

2.10.7 4U Flash Storage Expansion Test System

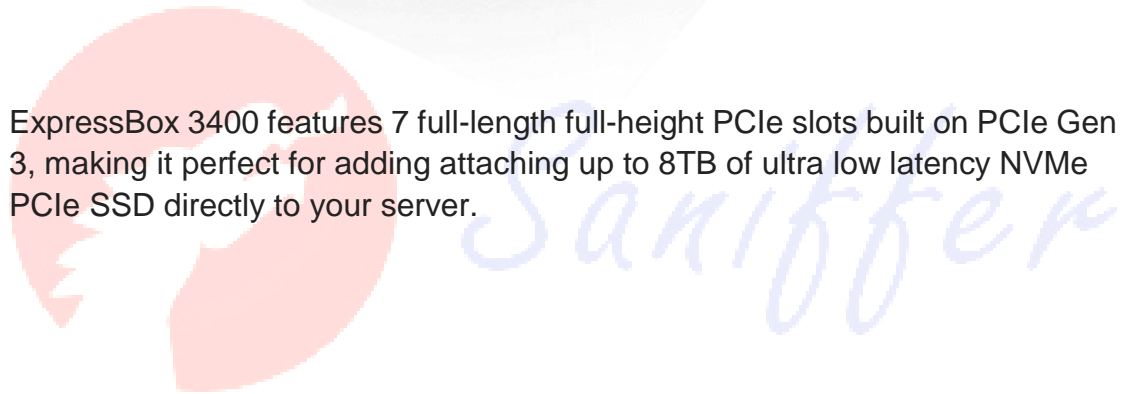


Pre-installed with either thirty-two NVMe or PCIe adapter cards for testing SSD, flash cards, or any other PCIe short cards. Perfect for quick insertion and removal of devices under test (DUTs).

2.10.8 ExpressBox 3400



ExpressBox 3400 features 7 full-length full-height PCIe slots built on PCIe Gen 3, making it perfect for adding attaching up to 8TB of ultra low latency NVMe PCIe SSD directly to your server.



(三) 12G SAS 产品线

3.1 12G SAS 转接线缆

Part #	Description	Avail.	Min. Qty.
SA-4343LS-.5M-N2	HD MiniSAS Int. (SFF-8643) to HD MiniSAS Int. (SFF-8643), 30AWG P ...	5 Weeks	100
SA-4343LS-.6M-N2	HD MiniSAS Int. (SFF-8643) to HD MiniSAS Int. (SFF-8643), 30AWG P ...	5 Weeks	100
SA-4343LS-.8M-N2	HD MiniSAS Int. (SFF-8643) to HD MiniSAS Int. (SFF-8643), 30AWG P ...	5 Weeks	100
SA-4343LS-1M-N2	HD MiniSAS Int. (SFF-8643) to HD MiniSAS Int. (SFF-8643), 30AWG P ...	5 Weeks	100
SA-4343LS-2M-N2	HD MiniSAS Int. (SFF-8643) to HD MiniSAS Int. (SFF-8643), 30AWG P ...	Call	100
SA-4343TX-0.5M-N2	Mini SAS HD 4i (SFF-8643) - Mini SAS HD 4i (SFF-8643), w/o sideba ...	1 week	10
SA-4343TX-1M-N2	Mini SAS HD 4i (SFF-8643) - Mini SAS HD 4i (SFF-8643), w/o sideba ...	1 week	10
SA-4380-1M-N2	Int. Mini SAS HD 4x (SFF-8643) - 12G SAS 29pin female (SFF- ...	3 - 5 wks	1
SA-4380-HDD-1M-N2	Int. Mini SAS HD 4x (SFF-8643) - 12G SAS 29pin female (SFF- ...	3 - 5 wks	1
SA-4380M-0.5M-N2	Int. MiniSAS HD (SFF-8643) to *4 port 12G SAS Drive (SFF-8680) Ma ...	Call	1
SA-4380M-1M-N2	Int. MiniSAS HD (SFF-8643) to *4 port 12G SAS Drive (SFF-8680) Ma ...	Call	1
SA-4380M-2M-N2	Int. MiniSAS HD (SFF-8643) to *4 port 12G SAS Drive (SFF-8680) Ma ...	Call	1
SA-4380M-BP-0.5M-N2	Int. MiniSAS HD (SFF-8643) to *2 Dual port 12G SAS Drive (SFF-868 ...	Call	1
SA-4380M-BP-1M-N2	Int. MiniSAS HD (SFF-8643) to *2 Dual port 12G SAS Drive (SFF-868 ...	Call	1
SA-4380M-BP-2M-N2	Int. MiniSAS HD (SFF-8643) to *2 Dual port 12G SAS Drive (SFF-868 ...	Call	1
SA-43RA43RAS-0.5M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to Int. HD MiniSAS (SFF-86 ...	Call	1
SA-43RA43RAS-0.8M	Int. HD MiniSAS (SFF-8643) Right	Call	1

-N2	Angle to Int. HD MiniSAS (SFF-86 ...		
SA-43RA43RAS-1M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to Int. HD MiniSAS (SFF-86 ...	Call	1
SA-43RA43RAS-2M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to Int. HD MiniSAS (SFF-86 ...	Call	1
SA-43RA43S-.5M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to Int. HD MiniSAS (SFF-86 ...	Call	1
SA-43RA43S-.8M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to Int. HD MiniSAS (SFF-86 ...	Call	1
SA-43RA43S-1M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to Int. HD MiniSAS (SFF-86 ...	Call	1
SA-43RA43S-2M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to Int. HD MiniSAS (SFF-86 ...	Call	1
SA-44-44444444L-1M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Girdle to *4 Ext. HD MiniSAS (SF ...	3 - 5 wks	1
SA-44-44444444L-2M-S2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield to *4 Ext. HD MiniSAS (SFF ...	Call	1
SA-44-4444L-1M-S2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield to *2 Ext. HD MiniSAS (SFF ...	Call	1
SA-44-4444L-2M-S2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield to *2 Ext. HD MiniSAS (SFF ...	Call	1
SA-4436L-1M-S2	Ext. MiniSAS HD (SFF-8644) w/EMI Shield to QSFP+, 12G SAS Rated, ...	Call	1
SA-4436L-2M-S2	Ext. MiniSAS HD (SFF-8644) w/EMI Shield to QSFP+, 12G SAS Rated, ...	Call	1
SA-4436L-3M-S2	Ext. MiniSAS HD (SFF-8644) w/EMI Shield to QSFP+, 12G SAS Rated, ...	Call	1
SA-4436L-5M-S2	Ext. MiniSAS HD (SFF-8644) w/EMI Shield to QSFP+, 12G SAS Rated, ...	Call	1
SA-4443L-.5M-S2N2	HD MiniSAS Ext. (SFF-8644)w/EMI Shield to HD MiniSAS Int. (SFF-86 ...	3 - 5 wks	1
SA-4443L-1M-S2N2	HD MiniSAS Ext. (SFF-8644)w/EMI Shield to HD MiniSAS Int. (SFF-86 ...	3 - 5 wks	1
SA-4443L-2M-S2N2	HD MiniSAS Ext. (SFF-8644)w/EMI Shield to HD MiniSAS Int. (SFF-86 ...	3 - 5 wks	1
SA-4443L-3M-S2N2	HD MiniSAS Ext. (SFF-8644)w/EMI Shield to HD MiniSAS Int. (SFF-86 ...	3 - 5 wks	1
SA-4444L-0.3M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	Call	5

SA-4444L-0.5M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	In Stock	1
SA-4444L-10M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	3-5 Weeks	1
SA-4444L-1M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield to Ext. HD MiniSAS (SFF-8 ...	In Stock	1
SA-4444L-2M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	In Stock	1
SA-4444L-3M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	In Stock	1
SA-4444L-5M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	Call	1
SA-4444L-6M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	Call	1
SA-4444L-8M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	Call	1
SA-4480-1M-S2	Mini SAS HD 4x (SFF-8644) w/EMI Shield - *4 12G SAS 29pin f ...	3 - 5 wks	1
SA-4480-HDD-1M-S2	Mini SAS HD 4x (SFF-8644) w/EMI Shield - 12G SAS 29pin fema ...	3 - 5 wks	1
SA-4480M-0.5M-S2	Ext. MiniSAS HD (SFF-8644) to *4 12G SAS Drive (SFF-8680) Male PI ...	Call	1
SA-4480M-1M-S2	Ext. MiniSAS HD (SFF-8644) to *4 12G SAS Drive (SFF-8680) Male PI ...	Call	1
SA-4480M-2M-S2	Ext. MiniSAS HD (SFF-8644) to *4 12G SAS Drive (SFF-8680) Male PI ...	Call	1
SA-4480M-BP-0.5M-S2	Ext. MiniSAS HD (SFF-8644) to *2 Dual port 12G SAS Drive (SFF-868 ...	Call	1
SA-4480M-BP-1M-S2	Ext. MiniSAS HD (SFF-8644) to *2 Dual port 12G SAS Drive (SFF-868 ...	Call	1
SA-4480M-BP-2M-S2	Ext. MiniSAS HD (SFF-8644) to *2 Dual port 12G SAS Drive (SFF-868 ...	Call	1
SA-44X2-80X4-1M-S2	*2 Ext. HD MiniSAS (SFF-8644) w/EMI Shield w/o Carbon to *4 12G S ...	3 - 5 wks	1

3.2 12G SAS 适配器

Part #	Description	Avail.	Min. Qty.
06-1984-01A	Mounting bracket for SA-44X2F adapters	Call	1
SA-44X2F-43X2-.5M	Dual HD MiniSAS Receptacle (SFF-8644) to Dual Int MD MiniSAS Plug ...	Call	1
SA-44X2F-43X2-6in	Dual HD MiniSAS Receptacle (SFF-8644) to Dual Int MD MiniSAS Plug ...	Call	1
SA-44X2F-43X4-22in	Dual HD MiniSAS Receptacle (SFF-8644) to Quad Int MD MiniSAS Plug ...	Call	1
SA-AD-4439-04	12Gb/s SAS 4-port T-Card. This T-card also works for standard 2- ...	In Stock	1
SA-AD-4439-04HP	12G SAS 4 lane T-Card with hot plug support	In Stock	1
SA-AD-4444-LB	Ext. MiniSAS HD (SFF-8644) Loopback adapter with EMI Shield, 12G ...	Call	1

(四) 6G SAS/SATA 产品线

4.1 Active Mini-SAS Cables

Part #	Description	Avail.	Min. Qty.
SA-4488IC-.5M	26P Active MiniSAS (SFF-8088) to HD MiniSAS (SFF-8644), Madison 2 ...	3 - 5 wks	1
SA-8888IC-10M	26P Active MiniSAS (SFF-8088) to 26P Active MiniSAS (SFF-8088), M ...	3 - 5 wks	1
SA-8888IC-20M	26P Active MiniSAS (SFF-8088) to 26P Active MiniSAS (SFF-8088), G ...	3 - 5 wks	1

4.2 Ext HD Mini-SAS Cables (IPass+)

Part #	Description	Avail.	Min.
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			Qty.
SA-44-8888-1M-S2	HD MiniSAS (SFF-8644)w/EMI Shield - MiniSAS (SFF-8088) Lanes 0&1 ...	3 - 5 wks	1
SA-44-8888-2M-S2	HD MiniSAS (SFF-8644)w/EMI Shield - MiniSAS (SFF-8088) Lanes 0&1 ...	3 - 5 wks	1
SA-44-8888-3M-S2	HD MiniSAS (SFF-8644)w/EMI Shield - MiniSAS (SFF-8088) Lanes 0&1 ...	3 - 5 wks	1
SA-4444-.5M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - HD MiniSAS (SFF-8644) w ...	3 - 5 wks	1
SA-4444-10M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	3 - 5 wks	1
SA-4444-1M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	3 - 5 wks	1
SA-4444-20M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	3 - 5 wks	1
SA-4444-2M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	3 - 5 wks	1
SA-4444-3M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	3 - 5 wks	1
SA-4444-5M-S2	Ext. HD MiniSAS (SFF-8644) w/EMI Shield - Ext. HD MiniSAS (SFF-86 ...	3 - 5 wks	1
SA-4482-.5M-S2	HD MiniSAS (SFF-8644) - *4 SAS (SFF-8482)Female, .5 meter	3 - 5 wks	3
SA-4482-1M-S2	HD MiniSAS (SFF-8644) - *4 SAS (SFF-8482)Female, 1 meter	In Stock	1
SA-4482-2M-S2	HD MiniSAS (SFF-8644) - *4 SAS (SFF-8482)Female, 2 meter	3 - 5 wks	3
SA-4482-BP-0.5M-S2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield to *2 Male SFF-8482 Backpl ...	Call	1
SA-4482-BP-1M-S2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield to *2 Male SFF-8482 Backpl ...	3 - 5 wks	1
SA-4482-HDD-.5M-S2	Ext. MiniSAS HD (SFF-8644)w/EMI Shield - *2 SAS (SFF-8482) Female ...	3 - 5 wks	1
SA-4482-HDD-1M-S2	Ext. MiniSAS HD (SFF-8644)w/EMI Shield - *2 SAS (SFF-8482) Female ...	3 - 5 wks	1
SA-8744-.5M-S2	Int. MiniSAS (SFF-8087) - HD MiniSAS (SFF-8644)w/EMI Shield, 30AW ...	3 - 5 wks	1
SA-8744-1M-S2	Int. MiniSAS (SFF-8087) - HD MiniSAS (SFF-8644)w/EMI Shield, 30AW ...	3 - 5 wks	1

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SA-8744-2M-S2	Int. MiniSAS (SFF-8087) - HD MiniSAS (SFF-8644)w/EMI Shield, 30AW ...	3 - 5 wks	1
SA-8744-3M-S2	Int. MiniSAS (SFF-8087) - HD MiniSAS (SFF-8644)w/EMI Shield, 30AW ...	3 - 5 wks	5
SA-88-4444L-1M-S2	Ext. MiniSAS SFF-8088 to *2 HD MiniSAS SFF-8644 w/EMI Shield, lan ...	Call	1
SA-88-4444L-2M-S2	Ext. MiniSAS SFF-8088 to *2 HD MiniSAS SFF-8644 w/EMI Shield, lan ...	Call	1
SA-8844-.5M-S2	Ext. MiniSAS (SFF-8088) - HD MiniSAS (SFF-8644) w/EMI Shield, 28A ...	In Stock	1
SA-8844-10M-S2	Ext. MiniSAS (SFF-8088) - HD MiniSAS (SFF-8644) w/EMI Shield, 24A ...	3 - 5 wks	1
SA-8844-1M-S2	Ext. MiniSAS (SFF-8088) - HD MiniSAS (SFF-8644) w/EMI Shield, 28A ...	In Stock	1
SA-8844-20M-S2	Ext. MiniSAS (SFF-8088) - HD MiniSAS (SFF-8644) w/EMI Shield, 24A ...	3 - 5 wks	1
SA-8844-2M-S2	Ext. MiniSAS (SFF-8088) - HD MiniSAS (SFF-8644) w/EMI Shield, 28A ...	In Stock	1
SA-8844-3M-S2	Ext. MiniSAS (SFF-8088) - HD MiniSAS (SFF-8644) w/EMI Shield, 28A ...	Call	1
SA-8844-5M-S2	Ext. MiniSAS (SFF-8088) - HD MiniSAS (SFF-8644) w/EMI Shield, 24A ...	3 - 5 wks	3
SA-F44S7P-.5M-S2	Ext. MiniSAS HD (SFF-8644)w/EMI Shield - *4 7-pin SATA Female, Ho ...	3 - 5 wks	1
SA-F44S7P-1M-S2	Ext. MiniSAS HD (SFF-8644)w/EMI Shield - *4 7-pin SATA Female, Ho ...	In Stock	1
SA-F44S7P-2M-S2	Ext. MiniSAS HD (SFF-8644)w/EMI Shield - *4 7-pin SATA Female, Ho ...	3 - 5 wks	5
SA-F44S7P-3M-S2	Ext. MiniSAS HD (SFF-8644)w/EMI Shield - *4 7-pin SATA Female, Ho ...	3 - 5 wks	5
SA-FS7P44-.5M-S2	*4 7-pin SATA Female - Ext. MiniSAS HD (SFF-8644)w/EMI Shield, Ho ...	3 - 5 wks	5
SA-FS7P44-1M-S2	*4 7-pin SATA Female - Ext. MiniSAS HD (SFF-8644)w/EMI Shield, Ho ...	In Stock	1
SA-FS7P44-2M-S2	*4 7-pin SATA Female - Ext. MiniSAS HD (SFF-8644)w/EMI Shield, Ho ...	3 - 5 wks	5
SA-FS7P44-3M-S2	*4 7-pin SATA Female - Ext. MiniSAS HD (SFF-8644)w/EMI Shield, Ho ...	3 - 5 wks	5

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4.3 External Mini-SAS Cables

Part #	Description	Avail.	Min. Qty.
SA-8488-.5M	4i MultiLane (SFF-8484) Host- MiniSAS (SFF-8088) Target , .5 mete ...	Call	1
SA-8488-1M	4i MultiLane (SFF-8484) Host - MiniSAS (SFF-8088) Target , 1 mete ...	Call	1
SA-88-8888-01R	Ext. MiniSAS (SFF-8088) to *2 Ext. MiniSAS (SFF-8088) Y Cable, 1 ...	2-3 wks	1
SA-88-8888-02R	Ext. MiniSAS (SFF-8088) to Ext. MiniSAS (SFF-8088) Y Cable, 2 met ...	Call	1
SA-88-8888888-02	Ext. MiniSAS (SFF-8088) to *4 Ext. MiniSAS (SFF-8088), Quad Cable ...	Call	1
SA-8870-.5M	MiniSAS (SFF-8088) Host - SAS4x (SFF-8470) Target, .5 meter	Call	1
SA-8870-1M	MiniSAS (SFF-8088) Host- SAS4x (SFF-8470) Target, 1 meter	Call	1
SA-8870-2M	MiniSAS (SFF-8088) Host- SAS4x (SFF-8470) Target, 2 meter	Call	1
SA-8870-3M	MiniSAS (SFF-8088) Host- SAS4x (SFF-8470) Target, 3 meter	Call	1
SA-8870-4M	MiniSAS (SFF-8088) Host- SAS4x (SFF-8470) Target, 4 meter	Call	1
SA-8882-.5M	Ext. MiniSAS 26P (SFF-8088) Host - *4 SAS Drive (SFF-8482) Female ...	Call	1
SA-8882-1M	Ext. MiniSAS 26P (SFF-8088) Host - *4 SAS Drive (SFF-8482) Female ...	Call	1
SA-8882-BP-.5M	MiniSAS (SFF-8088) - 2x, backplane (SFF-8482,male)w/power, .5m (H ...	Call	1
SA-8882-BP-1M	MiniSAS (SFF-8088) - 2x, backplane (SFF-8482, male)w/power, 1m (H ...	Call	1
SA-8882-HDD-.5M	MiniSAS (SFF-8088) - *2 HDD (SFF-8482, female)w/Dual ports, .5M l ...	Call	1
SA-8882-HDD-1M	MiniSAS (SFF-8088) - *2 HDD (SFF-8482, female)w/Dual ports, 1m lo ...	Call	1
SA-8882-HDD-2M	MiniSAS (SFF-8088) - *2 HDD (SFF-8482, female)w/Dual ports, 2M lo ...	Call	1
SA-8884-.5M	MiniSAS (SFF-8088) Host - 4i MultiLane	Call	1

	(SFF-8484) Target, 30AWG 1 ...		
SA-8884-1M	MiniSAS (SFF-8088) Host - 4i MultiLane (SFF-8484) Target, 30AWG 1 ...	Call	1
SA-8887-.5M	MiniSAS (SFF-8088) Host - SAS4i (SFF-8087) Target, 30AWG 10G, .5 ...	Call	1
SA-8887-1M	MiniSAS (SFF-8088) Host - SAS4i (SFF-8087) Target, 30AWG 10G, 1 m ...	Call	1
SA-8887-2M	MiniSAS (SFF-8088) Host- SAS4i (SFF-8087) Target, 30AWG 10G, 2 me ...	Call	1
SA-8887-3M	MiniSAS (SFF-8088) Host- iSAS4i (SFF-8087) Target, 30AWG, 10G, 3 ...	Call	1
SA-8887-6M	MiniSAS (SFF-8088) Host- SAS4i (SFF-8087) Target, 26AWG, 6 meter	Call	1
SA-8888-.5M	Ext. MiniSAS 26P (SFF-8088) - Ext. MiniSAS 26P (SFF-8088), 30AWG ...	Call	1
SA-8888-1M	Ext. MiniSAS 26P (SFF-8088) - Ext. MiniSAS 26P (SFF-8088), 30AWG ...	Call	1
SA-8888-2M	Ext. MiniSAS 26P (SFF-8088) - Ext. MiniSAS 26P (SFF-8088), 30AWG ...	Call	1
SA-8888-3M	MiniSAS (SFF-8088) - MiniSAS (SFF-8088), Madison 28AWG 3 meter	Call	1
SA-8888-4M	Ext. MiniSAS 26P (SFF-8088) - Ext. MiniSAS 26P (SFF-8088), 28AWG ...	Call	1
SA-8888-6M	Ext. MiniSAS 26P (SFF-8088) - Ext. MiniSAS 26P (SFF-8088, Amphenol ...	2-3 wks	1
SA-8888-88888888-XX	Dual wired 2x MiniSAS (SFF-8088) - 4x MiniSAS (SFF-8088)	In Stock	1
SA-8888-BP-1M	*2 Ext. MiniSAS (SFF-8088) to *1 SAS Backplane Receptacle (SFF-84 ...	Call	1
SA-8888-HDD-1M	*2 Ext. MiniSAS (SFF-8088) to *1 SAS Drive Receptacle (SFF-8482) ...	3-5 wks	5
SA-88S7P-.5M	Ext. MiniSAS 26P (SFF-8088) Host - SATA 7-pin(4x) Target, .5 mete ...	Call	1
SA-88S7P-1M	Ext. MiniSAS 26P (SFF-8088) Host - SATA 7-pin(4x) Target, 1 meter ...	Call	1
SA-88S7P-2M	Ext. MiniSAS 26P (SFF-8088) Host - SATA 7-pin(4x) Target, 2 meter ...	Call	1
SA-F88S7P-.5M	Ext. MiniSAS 26P (SFF-8088) Host - SATA 7-pin(4x) Target, .5 mete ...	Call	1

SA-F88S7P-1M	Ext. MiniSAS 26P (SFF-8088) Host - SATA 7-pin(4x) Target, 1 meter ...	Call	1
SA-F88S7P-2M	Ext. MiniSAS 26P (SFF-8088) Host - SATA 7-pin(4x) Target, 2 meter ...	Call	1
SA-FS7P88-.5M	SATA 7-pin (4x) Host - Ext. MiniSAS 26P (SFF-8088) Target, .5 met ...	Call	1
SA-FS7P88-1M	SATA 7-pin (4x) Host - Ext. MiniSAS 26P (SFF-8088) Target, 1 mete ...	Call	1
SA-FS7P88-2M	SATA 7-pin (4x) Host - Ext. MiniSAS 26P (SFF-8088) Target, 2 mete ...	Call	1
SA-S7P88-.5M	SATA 7-pin w/metal clips (4x) Host- Ext. MiniSAS 26P (SFF-8088) T ...	Call	1
SA-S7P88-1M	SATA 7-pin w/metal clips (4x) Host- Ext. MiniSAS 26P (SFF-8088) T ...	Call	1
SA-S7P88-2M	SATA 7-pin w/metal clips (4x) Host- Ext. MiniSAS 26P (SFF-8088) T ...	Call	1
SA-S7P88-3M	SATA 7-pin w/metal clips (4x) Host- Ext. MiniSAS 26P (SFF-8088) T ...	Call	1



4.4 Int. HD Mini-SAS Cables (IPass+)

Part #	Description	Avail.	Min. Qty.
SA-4343-.3M-N2	Int. HD MiniSAS (SFF-8643) - Int. HD MiniSAS (SFF-8643), Madison ...	3 - 5 wks	10
SA-4343-.4M-N2	Int. HD MiniSAS (SFF-8643) - Int. HD MiniSAS (SFF-8643), Madison ...	Call	10
SA-4343-.5M-N2	Int. HD MiniSAS (SFF-8643) - Int. HD MiniSAS (SFF-8643), Madison ...	Call	10
SA-4343-.6M-N2	Int. HD MiniSAS (SFF-8643) - Int. HD MiniSAS (SFF-8643), 30AWG 10 ...	Call	1
SA-4343-1M-N2	Int. HD MiniSAS (SFF-8643) - Int. HD MiniSAS (SFF-8643), 30AWG 10 ...	Call	10
SA-4382-.5M-N2	Int. HD MiniSAS (SFF-8643) to *4 Single Port SAS Drive (SFF-8482) ...	Call	1
SA-4382-1M-N2	Int. HD MiniSAS (SFF-8643) to *4 Single Port SAS Drive (SFF-8482) ...	3 - 5 wks	1

SA-4382-2M-N2	Int. HD MiniSAS (SFF-8643) to *4 Single Port SAS Drive (SFF-8482) ...	Call	1
SA-4382-HDD-.5M-N2	Int. HD MiniSAS (SFF-8643) to *2 Dual Port SAS Drive (SFF-8482), ...	Call	1
SA-4382-HDD-1M-N2	Int. HD MiniSAS (SFF-8643) to *2 Dual Port SAS Drive (SFF-8482), ...	Call	1
SA-4382-HDD-2M-N2	Int. HD MiniSAS (SFF-8643) to *2 Dual Port SAS Drive (SFF-8482), ...	Call	1
SA-43RA82-.8M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to *4 SAS Drive (SFF-8482) ...	Call	1
SA-43RA82-1M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to *4 SAS Drive (SFF-8482) ...	Call	1
SA-43RA82-2M-N2	Int. HD MiniSAS (SFF-8643) Right Angle to *4 SAS Drive (SFF-8482) ...	Call	1
SA-4443-.3M-S2N2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield - Int. HD MiniSAS (SFF-864 ...	3 - 5 wks	1
SA-4443-.4M-S2N2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield - Int. HD MiniSAS (SFF-864 ...	3 - 5 wks	1
SA-4443-.5M-S2N2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield - Int. HD MiniSAS (SFF-864 ...	3 - 5 wks	1
SA-4443-.6M-S2N2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield - Int. HD MiniSAS (SFF-864 ...	3 - 5 wks	1
SA-4443-1M-S2N2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield - Int. HD MiniSAS (SFF-864 ...	3 - 5 wks	1
SA-4443-2M-S2N2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield - Int. HD MiniSAS (SFF-864 ...	3 - 5 wks	1
SA-4443-3M-S2N2	Ext. HD MiniSAS (SFF-8644)w/EMI Shield - Int. HD MiniSAS (SFF-864 ...	3 - 5 wks	1
SA-8743-.4M-N2	Int. MiniSAS (SFF-8087) to Int. HD MiniSAS (SFF-8643), Madison 30 ...	3 - 5 wks	1
SA-8743-.5M-N2	Int. MiniSAS (SFF-8087) to Int. HD MiniSAS (SFF-8643), Madison 30 ...	3 - 5 wks	1
SA-8743-.6M-N2	Int. MiniSAS (SFF-8087) to Int. HD MiniSAS (SFF-8643), Madison 30 ...	3 - 5 wks	1
SA-8743-1M-N2	Int. MiniSAS (SFF-8087) to Int. HD MiniSAS (SFF-8643), Madison 30 ...	3 - 5 wks	1
SA-8743-2M-N2	Int. MiniSAS (SFF-8087) to Int. HD MiniSAS (SFF-8643), Madison 30 ...	3 - 5 wks	1
SA-8843-1M-N2	Ext. MiniSAS (SFF-8088) - Int. HD	3 - 5 wks	1

	MiniSAS (SFF-8643), Madison 28A ...		
SA-8843-2M-N2	Ext. MiniSAS (SFF-8088) - Int. HD MiniSAS (SFF-8643), Madison 28A ...	3 - 5 wks	1
SA-8843-3M-N2	Ext. MiniSAS (SFF-8088) - Int. HD MiniSAS (SFF-8643), Madison 28A ...	3 - 5 wks	1
SA-F43S7P-.5M-N2	Int. HD MiniSAS (SFF-8643) to *4 7-pin SATA breakout, Host-Target ...	Call	1
SA-F43S7P-1M-N2	Int. HD MiniSAS (SFF-8643) to *4 7-pin SATA breakout, Host-Target ...	3 - 5 wks	1
SA-F43S7P-2M-N2	Int. HD MiniSAS (SFF-8643) to *4 7-pin SATA breakout, Host-Target ...	3 - 5 wks	1
SA-F43S7P-3M-N2	Int. HD MiniSAS (SFF-8643) to *4 7-pin SATA breakout, Host-Target ...	Call	1
SA-FS7P43-.5M-N2	Int. HD MiniSAS (SFF-8643) to *4 7-pin SATA breakout, Target-Host ...	Call	1
SA-FS7P43-1M-N2	Int. HD MiniSAS (SFF-8643) to *4 7-pin SATA breakout, Target-Host ...	3 - 5 wks	1
SA-FS7P43-2M-N2	Int. HD MiniSAS (SFF-8643) to *4 7-pin SATA breakout, Target-Host ...	3 - 5 wks	1
SA-FS7P43-3M-N2	Int. HD MiniSAS (SFF-8643) to *4 7-pin SATA breakout, Target-Host ...	Call	1

4.5 Internal Mini-SAS Cables

Part #	Description	Avail.	Min. Qty.
SA-8487-.5M	4i MultiLane (SFF-8484) Host - Int MiniSAS (SFF-8087) Target , .5 ...	Call	1
SA-8487-1M	4i MultiLane (SFF-8484) Host - Int MiniSAS (SFF-8087) Target , 1 ...	Call	1
SA-8487RA-.5M	4i MultiLane (SFF-8484) Host - Int MiniSAS (SFF-8087) Right Angle ...	Call	10
SA-8487RA-1M	4i MultiLane (SFF-8484) Host - Int MiniSAS (SFF-8087) Right Angle ...	Call	10

SA-84RA87-.5M	4i MultiLane (SFF-8484) Right Angle, Host - Int MiniSAS (SFF-808 ...	Call	10
SA-84RA87-1M	4i MultiLane (SFF-8484) Right Angle, Host - Int MiniSAS (SFF-8087 ...	Call	5
SA-8770-.5M	Int MiniSAS (SFF-8087) Host - SAS4x (SFF-8470) Target, .5 meter	Call	5
SA-8770-1M	Int MiniSAS (SFF-8087) Host - SAS4x (SFF-8470) Target, 28AWG, 1 m ...	Call	5
SA-8770-2M	Int MiniSAS (SFF-8087) Host- SAS4x (SFF-8470) Target, 2 meter - s ...	Call	5
SA-8770-3M	Int MiniSAS (SFF-8087) Host - SAS4x (SFF-8470) Target, 3 meter	Call	5
SA-8782-.5M	Int MiniSAS (SFF-8087) Host - HDD Drive (4) w/Power, .5 meter	Call	1
SA-8782-1M	Int MiniSAS (SFF-8087) Host - HDD Drive (4) w/Power, 1 meter	Call	1
SA-8784-.5M	Int MiniSAS (SFF-8087) Host- 4i MultiLane (SFF-8484) Target, .5 m ...	Call	5
SA-8784-1M	Int MiniSAS (SFF-8087) Host- 4i MultiLane (SFF-8484) Target, 1 me ...	Call	5
SA-8784RA-.5M	Int MiniSAS (SFF-8087) Host - 4i MultiLane (SFF-8484) Right Angle ...	Call	10
SA-8784RA-1M	Int MiniSAS (SFF-8087) Host - 4i MultiLane (SFF-8484) Right Angle ...	Call	10
SA-8787-H2H-1M	Int MiniSAS (SFF-8087) - Int MiniSAS (SFF-8087), Host to Host, 1 ...	Call	5
SA-8787-H2H-2M	Int MiniSAS (SFF-8087) - Int MiniSAS (SFF-8087), Host to Host, 2 ...	Call	5
SA-8787-H2T-1M	Int MiniSAS (SFF-8087) - Int MiniSAS (SFF-8087), Host to Target, ...	Call	5
SA-8787-H2T-2M	Int MiniSAS (SFF-8087) - Int MiniSAS (SFF-8087), Host to Target, ...	Call	5
SA-87RA70-1M	Int MiniSAS (SFF-8087) Right Angle, Host - SAS4x (SFF-8470) Targe ...	Call	10
SA-87RA70-2M	Int MiniSAS (SFF-8087) Right Angle, Host - SAS4x (SFF-8470) Targe ...	Call	1
SA-87RA70-3M	Int MiniSAS (SFF-8087) Right Angle, Host - SAS4x (SFF-8470) Targe ...	Call	10
SA-87RA87-H2H-1M	Int MiniSAS (SFF-8087) Right Angle,	Call	10

	Host - Int MiniSAS (SFF-8087) ...		
SA-87RA87-H2H-2M	Int MiniSAS (SFF-8087) Right Angle, Host - Int MiniSAS (SFF-8087) ...	Call	10
SA-87RA87-H2T-1M	Int MiniSAS (SFF-8087) Right Angle, Host - Int MiniSAS (SFF-8087) ...	Call	10
SA-87RA87-H2T-2M	Int MiniSAS (SFF-8087) Right Angle, Host - Int MiniSAS (SFF-8087) ...	Call	10
SA-87RA87RA-H2H-1M	Int MiniSAS (SFF-8087) Right Angle, Host - Int MiniSAS (SFF-8087) ...	Call	1
SA-87RA87RA-H2H-2M	Int MiniSAS (SFF-8087) Right Angle, Host - Int MiniSAS (SFF-8087) ...	Call	10
SA-87RA87RA-H2T-1M	Int MiniSAS (SFF-8087) Right Angle, Host - Int MiniSAS (SFF-8087) ...	Call	10
SA-87RA87RA-H2T-2M	Int MiniSAS (SFF-8087) Right Angle, Host - Int MiniSAS (SFF-8087) ...	Call	10
SA-F87S7P-1M	Int MiniSAS (SFF-8087) Host - SATA (4x) Target, 1 meter (Madison ...	Call	1
SA-F87S7P-2M	Int MiniSAS (SFF-8087) Host - SATA (4x) Target, 2 meter (Madison ...	Call	1
SA-F87S7P-3M	Int MiniSAS (SFF-8087) Host- SATA (4x) Target, 3 meter (Madison r ...	Call	1
SA-FS7P87-1M	SATA (4x) Host- Int MiniSAS (SFF-8087) Target, 1 meter (Madison r ...	Call	1
SA-FS7P87-2M	SATA (4x) Host - Int MiniSAS (SFF-8087) Target, 2 meter (Madison ...	Call	1
SA-FS7P87-3M	SATA (4x) Host- Int MiniSAS (SFF-8087) Target, 3 meter (Madison r ...	Call	1

4.6 Mini-SAS adapters

Part #	Description	Avail.	Min. Qty.
SA-AD-82S7P-T	The SA-AD-82S7P allows you to "Hot-Swap" SAS Drives at a fraction ...	In Stock	2
SA-AD-8870-02	6g capable, MiniSAS (SFF-8088) male	Call	5

	- SAS4x (SFF-8470) female ada ...		
SA-AD-8887-LB	MiniSAS (SFF-8088) Loop Back Adapter	In Stock	1

4.7 SAS Cables

Part #	Description	Avail.	Min. Qty.
SA-7070-.5M	SAS4x (SFF-8470) - SAS4x (SFF-8470) external, 5 meter	Call	1
SA-7070-1M	SAS4x (SFF-8470) - SAS4x (SFF-8470) external, 1 meter	Call	1
SA-7070-2M	SAS4x (SFF-8470) - SAS4x (SFF-8470) external, 2 meter	Call	1
SA-7070-3M	SAS4x (SFF-8470) - SAS4x (SFF-8470) external, 3 meter	Call	1
SA-7070-4M	SAS4x (SFF-8470) - SAS4x (SFF-8470) external, 4 meter	Call	1
SA-7070-5EQM	SAS4x (SFF-8470) - SAS4x (SFF-8470) external, 5 meter, EQ (equali ...	Call	1
SA-7070-5M	SAS4x (SFF-8470) - SAS4x (SFF-8470) external, 5 meter	Call	1
SA-7070-6M	SAS4x (SFF-8470) - SAS4x (SFF-8470) external, 6 meter	Call	1
SA-7070-8M	SAS4x (SFF-8470) - SAS4x (SFF-8470) external, 8 meter	Call	1
SA-7082-.5M	SAS4x (SFF-8470) Host- HDD Drive (4) w/Power, .5 meter	Call	1
SA-7082-1M	SAS4x (SFF-8470) Host- Female HDD Drive (4) w/Power, 1 meter	Call	1
SA-7082-2M	SAS4x (SFF-8470) Host- HDD Drive (4) w/Power, 2 meter	Call	1
SA-7084-.5M	SAS4x (SFF-8470) Host- 4i Multilane (SFF-8484) Target, .5 meter	Call	10
SA-7084-1M	SAS4x (SFF-8470) Host- 4i Multilane (SFF-8484) Target, 1 meter	Call	10
SA-70S7P-.5M	SAS4x (SFF-8470) Host- SATA (4x)	Call	1

	Target, .5 meter (Madison round ...		
SA-70S7P-1.5M	SAS4x (SFF-8470) Host- SATA (4x) Target, 1.5 meter (Madison round ...	Call	10
SA-70S7P-1M	SAS4x (SFF-8470) Host- SATA (4x) Target, 1 meter (Madison round c ...	Call	1
SA-70S7P-2M	SAS4x (SFF-8470) Host- SATA (4x) Target, 2 meter (Madison round c ...	Call	1
SA-70S7P-3M	SAS4x (SFF-8470) Host- SATA (4x) Target, 3 meter (Madison round c ...	Call	5
SA-82M82F-1M	SFF-8482 Plug (backplane end) - SFF-8482 Receptacle (HDD end) ext ...	2 - 3 weeks	1
SA-8470-.5M	4i Multilane (SFF-8484) Host - SAS4x (SFF-8470) Target, .5 meter	Call	1
SA-8470-1M	4i Multilane (SFF-8484) Host- SAS4x (SFF-8470) Target, 1 meter	Call	1
SA-8482-.5M	4i Multi-lane (SFF-8484) Host - *4 HDD Drive (SFF-8482) Receptacl ...	Call	5
SA-8482-1M	4i Multi-lane (SFF-8484) Host- *4 HDD Drive (SFF-8482) Receptable ...	Call	5
SA-8484-.5M	4i Multi-lane (SFF-8484) Host- 4i Multi-lane (SFF-8484) Target,	Call	1
SA-8484-1M	4i Multi-lane (SFF-8484) - 4i Multi-lane (SFF-8484), 1 meter	Call	1
SA-84S7P-.5M	4i Multi-lane (SFF-8484) Host- 7 pin SATA (4x) Target, .5 meter	Call	1
SA-84S7P-1M	4i Multi-lane (SFF-8484) Host - 7 pin SATA (4x) Target, 1 meter	Call	10
SA-S7P70-.5M	SATA (4x) Host - SAS4x (SFF-8470) Target, .5 meter (Madison 28AWG ...	Call	1
SA-S7P70-1.5M	SATA (4x) Host- SAS4x (SFF-8470) Target, 1.5 meter (Madison 28AWG ...	Call	10
SA-S7P70-1M	SATA (4x) Host- SAS4x (SFF-8470) Target, 1 meter (Madison 28AWG) ...	Call	1
SA-S7P70-2M	SATA (4x) Host - SAS4x (SFF-8470) Target, 2 meter (Madison 28AWG) ...	Call	1
SA-S7P70-3M	SATA (4x) Host - SAS4x (SFF-8470) Target, 3 meter (Madison 28AWG) ...	Call	5
SA-S7P84-.5M	7 pin SATA (4x) Host- 4i Multi-lane (SFF-8484) Target, .5 meter	Call	5

SA-S7P84-1M	7 pin SATA (4x) Host- 4i Multi-lane (SFF-8484) Target, 1 meter	Call	5
SA-S7PBP-2-.5M	*2 7-pin SATA - SAS backplane (SFF-8482) Plug connector, .5 meter	in stock	1
SA-S7PBP-2-1M	*2 7-pin SATA - SAS backplane (SFF-8482) Plug connector, 1 meter	in stock	1
SA-S7PHDD-2-.5M	*2 7-pin SATA - SAS HDD Drive (SFF-8482) Receptacle connector, .5 ...	Call	1
SA-S7PHDD-2-1M	*2 7-pin SATA - SAS HDD Drive (SFF-8482) Receptacle connector, 1 ...	in stock	1

(五) SATA 产品线

5.1 SATA Cables

Part #	Description	Avail.	Min. Qty.
ST-7PS-BP-.5M	7 pin SATA Str, Backplane (same as HDD) w/power, .5 meter	Call	1
ST-7PS-BP-1M	7 pin SATA Str, Backplane (same as HDD) w/power, 1 meter	Call	1
ST-7PS-HDD-.5M	SATA breakout cable for HDD connection w/power, .5 meter	Call	1
ST-7PS-HDD-1M	SATA breakout cable for HDD connection w/power, 1 meter	Call	1
ST-7PS-M-M	7 Pin SATA Male to Male connector	Call	1
ST-7PS-ST-ST-.5M	7 pin SATA Str - 7 pin SATA Str, .5 meter	Call	100
ST-7PS-ST-ST-1M	7 pin SATA Str - 7 pin SATA Str, 1 meter	Call	100
ST-7PSxo-ST-ST-.5M	7 pin SATA Str - 7 pin SATA Str, .5 meter w/crossover wiring	Call	100
ST-7PSxo-ST-ST-1M	7 pin SATA Str - 7 pin SATA Str, 1 meter w/crossover wiring	Call	50
ST-E7PS7PS-1M	eSATA - SATA cable, 1 meter	Call	1
ST-e7PS-1 Meter	eSata 7 pin - eSata 7 pin, 1 meter	Call	1
ST-e7PS-2 Meter	eSata 7 pin - eSata 7 pin, 2 meter	Call	1

ST-e7PS-3 Meter	eSata 7 pin - eSata 7 pin, 3 meter	Call	1
ST-e7PS-4 Meter	eSata 7 pin - eSata 7 pin, 4 meter	Call	1
ST-e7PS-5 Meter	eSata 7 pin - eSata 7 pin, 5 meter	Call	1

5.2 SATA Adapters

Part #	Description	Avail.	Min. Qty.
ST-PWR-4PF-4PF-24in	Molex type 4 pin Female - Molex type 4 pin Female power extension ...	Call	50
ST-PWR-6 in	LP4 to 15 pin SATA power cable, 6 inch	Call	1

(六) 连接示波器/协议分析仪的产品线

6.1 SMA based boards

Part #	Description	Avail.	Min. Qty.
SA-36SMA-SPB	QSFP (SFF-8436) - SMA breakout board w/uncoupled, length matched ...	Call	1
SA-88SMA-SPB	Signal breakout board from External MiniSAS (SFF-8088) - SMA for ...	Call	10

6.2 SMA based test cables

Part #	Description	Avail.	Min. Qty.
SA-31H73-4x	SFP+ - SMA test cable using Huber/Suhner wire. 73mm	Call	1
SA-36H200-16x	QSFP (SFF-8436) - SMA test cable, 200mm (Huber/Suhner wire)	Call	1
SA-36H350-16x	QSFP (SFF-8436) - SMA test cable, 350mm (Huber/Suhner wire)	Call	1

SA-36H73-16x	QSFP (SFF-8436) - SMA test cable, 75mm (Huber/Suhner wire)	Call	1
SA-36SMA-16x	QSFP (SFF-8436) - SMA test cable	Call	1
SA-44SMA-16X	HD MiniSAS (SFF-8644) - SMA test fixture, 73mm long, with semi-ri ...	Call	1
SA-87SMA-16x	Int MiniSAS (SFF-8087) - SMA test cable. 18" (Flexible coaxial Wi ...	Call	1
SA-88SMA-16x	Ext. MiniSAS 26P (SFF-8088) - *16 Female SMA, 18inch Flexible Mic ...	Call	1
SA-SFPSMA18-4x	10G Capable, SFP+ (SFF-8431) to *4 SMA, test cable, 18" long, FI ...	30 Days	1
ST-7PSSMA-4x	7 Pin SATA - SMA test cable, 130mm. High Performance semi rigid ...	Call	1

(七) 12G SAS JBOD 产品线

7.1 8bay, DAS JBOD



SA-ENC12G-01A

The availability of new storage technologies such as Serial Attached SCSI (SAS) and Solid State Drives (SSDs) have given small to medium businesses an opportunity to have high-end storage networks for a fraction of the cost. The SA-ENC12G-01A 8-port SAS/SATA Direct Attached Storage (DAS) JBOD enables an easy upgrade to your business network's needs; adding up to 32TB of storage using 4TB drives, and an incredible throughput of up to 1200MB/s (100% Sequential Reads) when using the latest technology SAS 12G SSDs.



The SA-ENC12G-01A 8-port, 2.5" SAS/SATA JBOD includes specially designed and manufactured SF-8644 cables for directly attaching the SAS or SATA drives directly to the backplane; reducing noise, EMI, and other potentially harmful signaling connection issues. The backplane is a specialized Quarch (www.quarch.com) design, capable of supporting up to 12Gbps SAS or 6G SATA HDDs or SSDs with clean signaling. Also available for purchase is a kit that allows the user to install 2 JBODs onto a storage rack measuring 2U.

***SSD/HDD's not included with JBOD

****LED's will be brighter with SAS drives and less bright with SATA drives

* 1 year limited warranty

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
SA-ENC12G-01A	8 Port SAS Direct Attached JBOD (DAS). 300W auto switching power ...			In Stock	1

7.2 Rackmount Trays for 8bay JBOD

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
03-1242-01A	JBOD 19" Rack Mount Tray for use with Part #: SA-ENC12G-01A			In Stock	1

7.3 24bay 2.5" SAS/SATA Test Box



- 24 tool-less, 2.5", drive fixtures w/individual, replaceable interposers. Fixtures fit all thicknesses of 2.5" HDD/SSD. (2 fixture versions are available)
- Individual activity LED on each slot designed for both SAS and SATA activity
- Individual power on/off control via CLI through USB/Telnet/Ethernet
- Individual voltage/current measurement via CLI through USB/Telnet/Ethernet
- 800W power supply capable of 90A Max on 5v and 40A Max on 12v. Per/Slot limits of 4A at 5v and 1.6A on 12v. Power supply can operate in up to 70C environments.
- Direct attach SAS and SATA configuration w/dual port supported in SAS version. (Each x4 external connector is directly cabled to 4 individual drive slots)
- 19" rack mountable configuration
- (4) 4" 65cfm cooling fans
- Available for 6 GB/s SAS and SATA and 12 GB/s SAS, Gen3 PCIe (SFF-8639). External connections for 6 GB/s SAS is SFF-8088 and for 12 GB/s SAS and Gen3 PCIe is SFF-8644.
- Box dimensions: 16" x 16" x 16"

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
DTB-2401G3-1	SAS 24 Drive Test Box Gen3 - 12 GB			6 Weeks	1
QTL1756	2.5" Replacement Interposer			In Stock	1

7.4 24bay 2.5" DAS JBOD



- 24, 2.5" drive trays that will fit any width 2.5" HDD/SSD in a 2u height, 19" rack mountable chassis.
- Individual LED activity light on each tray (light pipe from backplane)
- 12Gb/s backplane using SFF-8680 drive connectors and SFF-8643 internal HD MiniSAS receptacles.
- External connection is SFF-8644 HD MiniSAS receptacles
- Available as a direct attach storage enclosure
- Redundant power supplies
- 1 year limited warranty

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
SA-ENC12G-024A	Direct Attach 24-port Storage enclosure, 12G backplanes using SFF ...			Call	1

(八) 6G SAS JBOD 产品线

8.1 16bay DAS JBOD

Part #	Description	Wiring Diag.	Drawings	Avail.	Min. Qty.
SA-ENC6G-02A	SAS/SATA 16-Slot 3.5" 16 bay, 3u, 6Gb/s, direct attach JBOD			Call	1

(九) QSFP 产品线

9.1 QSFP Cables

Part #	Description	Avail.	Min. Qty.
SA-3636-.5m	QSFP+ (SFF-8436) - QSFP+ (SFF-8436) cable , .5 meter	Call	1
SA-3636-1m	QSFP (SFF-8436) - QSFP (SFF-8436) cable, 1 meter	Call	1
SA-3636-2m	QSFP+ (SFF-8436) - QSFP+ (SFF-8436) cable , 2 meter	Call	1
SA-3636-3m	QSFP+ (SFF-8436) - QSFP+ (SFF-8436) cable , 3 meter	Call	1
SA-3636-4m	QSFP (SFF-8436) - QSFP (SFF-8436) cable , 4 meter	Call	1
SA-3636-5m	QSFP+ (SFF-8436) - QSFP+ (SFF-8436) cable, 5 meter	Call	1
SA-36S7P-.5m	QSFP+ (SFF-8436) - SATA (4x), .5 meter, Molded/Shielded	Call	1
SA-36S7P-1m	QSFP+ (SFF-8436) - SATA (4x), 1 meter, Molded/Shielded	Call	1
SA-36S7P-2m	QSFP+ (SFF-8436) - SATA (4x), 2 meter, Molded/Shielded	Call	1
SA-36S7P-3m	QSFP+ (SFF-8436) - SATA (4x), 3 meter, Molded/Shielded	Call	1
SA-8836-.5m	Ext. MiniSAS (SFF-8088) - QSFP+ (SFF-8436), .5 meter	Call	1
SA-8836-1m	Ext. MiniSAS (SFF-8088) - QSFP+ (SFF-8436), 1 meter	Call	5
SA-8836-2m	Ext. MiniSAS (SFF-8088) - QSFP+ (SFF-8436), 2 meter	Call	5
SA-8836-3m	Ext. MiniSAS (SFF-8088) - QSFP+ (SFF-8436), 3 meter	Call	1
SA-8836-4m	MiniSAS (SFF-8088) - QSFP (SFF-8436), 4 meter	Call	1
SA-8836-5m	Ext. MiniSAS (SFF-8088) - QSFP+ (SFF-8436), 5 meter	Call	1
SA-B36S7P-.5m	QSFP+ (SFF-8436) - SATA (4x), .5m braided	Call	1
SA-B36S7P-1m	QSFP+ (SFF-8436) - SATA (4x), 1m braided	Call	1
SA-B36S7P-2m	QSFP+ (SFF-8436) - SATA (4x), 2m braided	Call	1
SA-B36S7P-3m	QSFP+ (SFF-8436) - SATA (4x), 3m braided	Call	1
SA-BS7P36-.5m	SATA (4x) - QSFP+ (SFF-8436), .5 meter, braided	Call	1
SA-BS7P36-1m	SATA (4x) - QSFP+ (SFF-8436), 1 meter, braided	Call	1
SA-BS7P36-2m	SATA (4x) - QSFP+ (SFF-8436), 2 meter, braided	Call	1
SA-BS7P36-3m	SATA (4x) - QSFP+ (SFF-8436), 3 meter, braided	Call	1
SA-S7P36-.5m	SATA (4x) - QSFP+ (SFF-8436), .5 meter	Call	1
SA-S7P36-1m	SATA (4x) - QSFP+ (SFF-8436) , 1 meter, Shielded	Call	1
SA-S7P36-2m	SATA (4x) - QSFP+ (SFF-8436) , 2 meter, Shielded	Call	1
SA-S7P36-3m	SATA (4x) - QSFP+ (SFF-8436) , 3 meter, Shielded	Call	1