

SFF-TA-1002 CONNECTOR

ELEGANT, FLEXIBLE, FAST FOR SERVERS AND STORAGE

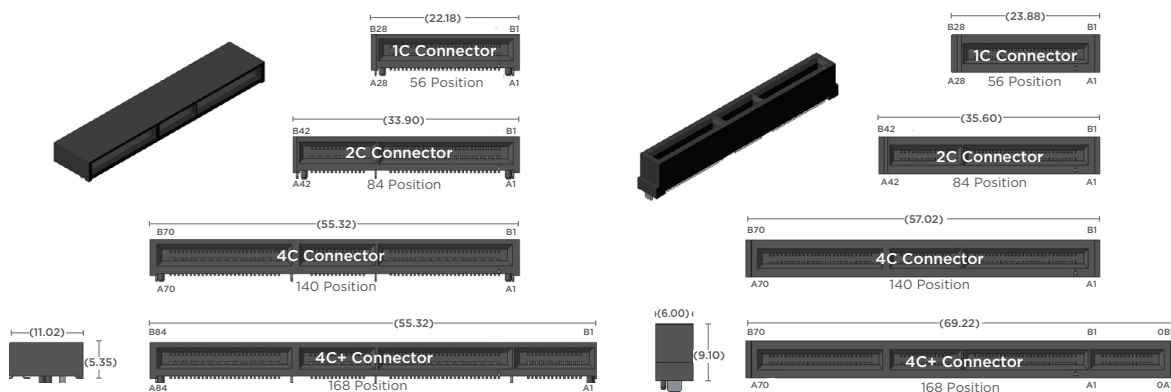
TE Connectivity's sliver 2.0 Connector chosen as new storage standard.

SLIVER 2.0 CONNECTOR FEATURES

- High density, hot pluggable, high performance and cost effective
- Protocol-agnostic multi-lane high speed connector
- Chosen as the next industry standard flash storage connector
- Proposed alternative or replacement to many form-factors including M.2, U.2, and PCIe
- Options available to connect to PCB card edge, cable or optics

SFF-TA-1002 SPECIFICATIONS

- Sliver connector chosen for performance, density, flexibility, and robustness
- Rated up to 56G PAM-4 (112G)
- Meets all current protocol performance requirements for PCIe Gen3/4 (8G & 16G), SAS-3/4 (6G, 12G, & 24G), Ethernet protocols (10G & 25G per lane), Infiniband (28G), and expected to meet performance for IEEE & OIF 56 Gbps, PCIE Gen5, and SAS5
- Sizing options include 1C (x4), 2C (x8), and 4C/4C+ (16) in both right angle, and vertical sizes. All module cards can plug into any alternate configuration by design. Non-standard variants are also available in X32 and X16 + high power
- Click on each standard below for more information on how one connector family can be used for many server, storage, network, and other data communication connectivity needs



SFF-TA-1002 CONNECTOR

REFERENCE APPLICATIONS

EDSFF / INTEL RULER

- Enterprise Storage & JBOF
- Supports SFF-TA-1006, 1007, 1008, 1009

OCP NIC 3.0

- OCP pluggable NIC form factor
- X16 4C+: supports x8 and x16 large and small form factor NICs
- X16 4C: additional connector to support x24 and x32 large NICs

GEN-Z

- PCIe riser card
- Storage and memory
- Hardware accelerators

PART NUMBERS

Card Edge Receptacles- PCIe Gen 5

Part Description	Orientation	Standard	TE Part Numbers						
			56 Position	84 Position	140 Position	168 Position	196 Position	224 Position	280 Position
Card Edge Receptacle	Vertical	SFF-TA-1002	2327679-1	2327678-1	2327677-1	-	-	-	-
Card Edge Receptacle + Power	Vertical	N/A	-	-	2338718-1	2333799-1	-	-	-
Card Edge Receptacle	Vertical	SFF Derivative	-	-	-	Under development	2348234-1	Under development	Under development
Card Edge Receptacle	Right Angle	SFF-TA-1002	2327672-1	2327671-1	2327670-1	2336568-1	-	-	-
Card Edge Receptacle 1x1 SMT	Orthogonal	SFF-TA-1002, EDSFF	-	Under development	-	-	-	-	-
Card Edge Receptacle 1x4 SMT	Orthogonal	SFF-TA-1002, EDSFF	Under development	Under development	-	-	-	-	-
Card Edge Receptacle, 1.57mm Host PCB	Straddle	SFF-TA-1002, OCP NIC 3.0	-	2340326-1	2340324-1	2340321-1	-	-	-
Card Edge Receptacle, 1.57mm Host PCB	Straddle	N/A	2340331-1	-	-	-	-	-	-
Card Edge Receptacle, 1.93mm Host PCB	Straddle	SFF-TA-1002, OCP NIC 3.0	-	-	1-2340324-2	1-2340321-2	-	-	-
Card Edge Receptacle, 2.36mm Host PCB	Straddle	SFF-TA-1002, OCP NIC 3.0	-	-	2-2340324-1	2-2340321-1	-	-	-

Receptacles for Cable Assemblies - PCIe Gen5

Part Description	Orientation	Standard	TE Part Numbers				
			28 Position	56 Position	84 Position	140 Position	168 Position
Receptacle for Cable Assembly	Vertical	SFF-TA-1002	-	2332141-1	2331813-1	2332139-1	2384218-1
Receptacle for Cable Assembly	Right Angle	SFF-TA-1002	2345808-1	2332208-1	2331814-1	2332205-1	2369833-1

Card Edge Power

Part Description	Orientation	Standard	TE Part Numbers
50 AMP Card Edge Assembly - Open Wall	Vertical	SFF Derivative	2344604-1
50 AMP Card Edge Assembly	Right Angle	SFF Derivative	2351970-1
50 AMP Card Edge Assembly - One End Wall	Vertical	SFF Derivative	2345506-1
4C High Power Card Edge Assembly	Vertical	SFF Derivative	2338718-1

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Sliver Direct to Lead Frame Cable Assemblies-- PCIe Gen5

Part Description	Impedance	Wire Size	TE Part Numbers			
			56 Position		168 Position	
			0.5 Meter	1.0 Meter	0.5 Meter	0.3 Meter
4C+ RECEPTACLE ASSEMBLY to 4C+ PLUG	85	30 AWG	-	-	2373783-1	2373783-2
4C+ RECEPTACLE ASSEMBLY to MCIO & SLIVER 1C HYBRID	85	30 AWG	-	-	Under development	Under development
1C RECEPTACLE ASSEMBLY	85	30 AWG	2373744-1	2343284-2	-	-
1C ORTHOGONAL	85	30 AWG	2428093-1	Under development	-	-

Sliver Cable Assemblies- PCIe Gen5

Part Description	Impedance	Wire Size	TE Part Numbers- Push Button Cable Assemblies					
			56 Position		84 Position		140 Position	
			0.5 Meter	1.0 Meter	0.5 Meter	1.0 Meter	0.5 Meter	1.0 Meter
Straight to Straight Cable	85	33 AWG	2340872-1	2340872-2	2340783-1	2340783-2	2340879-1	2340879-2
Straight to R/A Cable	85	33 AWG	2340873-1	2340873-2	2340930-1	2340930-2	2340880-1	2340880-2
R/A to R/A Cable	85	33 AWG	2340874-1	2340874-2	2340789-1	2340789-2	2340881-1	2340881-2
Lateral to Lateral Cable	85	33 AWG	2343284-1	2343284-2	2343286-1	2343286-2	2343288-1	2343288-2
Straight to Straight Cable	85	30 AWG	2340876-1	2340876-2	2340861-1	2340861-2	2340882-1	2340882-2
Straight to R/A Cable	85	30 AWG	2340877-1	2340877-2	2340863-1	2340863-2	2340884-1	2340884-2
R/A to R/A Cable	85	30 AWG	2340878-1	2340878-2	2340865-1	2340865-2	2340885-1	2340885-2
Straight to Straight Cable	100	33 AWG	2349831-1	2349831-2	2349835-1	2349835-2	2349841-1	2349841-2
Straight to R/A Cable	100	33 AWG	2349832-1	2349832-2	2349838-1	2349838-2	2349842-1	2349842-2
R/A to R/A Cable	100	33 AWG	2349833-1	2349833-2	2349839-1	2349839-2	2349843-1	2349843-2
Lateral to Lateral Cable	100	33 AWG	2349834-1	2349834-2	2349840-1	2349840-2	2349844-1	2349844-2

All cable assemblies can be used for SFF-TA-1002 receptacles.

Sliver Cable Assemblies- PCIe Gen5 Gen5

Part Description	Impedance	Wire Size	TE Part Numbers- Pull Tab Cable Assemblies					
			56 Position		84 Position		140 Position	
			0.5 Meter	1.0 Meter	0.5 Meter	1.0 Meter	0.5 Meter	1.0 Meter
Straight to Straight Cable	85	33 AWG	2361330-1	2361330-2	2361341-1	2361341-2	2361352-1	2361352-2
Straight to R/A Cable	85	33 AWG	2361332-1	2361332-2	2361343-1	2361343-2	2361354-1	2361354-2
R/A to R/A Cable	85	33 AWG	2361334-1	2361334-2	2361345-1	2361345-2	2361356-1	2361356-2
Lateral to Lateral Cable	85	33 AWG	2361336-1	2361336-2	2361347-1	2361347-2	2361358-1	2361358-2
Straight to Straight Cable	85	30 AWG	2361331-1	2361331-2	2361342-1	2361342-2	2361353-1	2361353-2
Straight to R/A Cable	85	30 AWG	2361333-1	2361333-2	2361344-1	2361344-2	2361355-1	2361355-2
R/A to R/A Cable	85	30 AWG	2361335-1	2361335-2	2361346-1	2361346-2	2361357-1	2361357-2
Straight to Straight Cable	100	33 AWG	2361337-1	2361337-2	2361348-1	2361348-2	2361359-1	2361359-2
Straight to R/A Cable	100	33 AWG	2361338-1	2361338-2	2361349-1	2361349-2	2361360-1	2361360-2
R/A to R/A Cable	100	33 AWG	2361339-1	2361339-2	2361350-1	2361350-2	2361361-1	2361361-2
Lateral to Lateral Cable	100	33 AWG	2361340-1	2361340-2	2361351-1	2361351-2	2361362-1	2361362-2

All cable assemblies can be used for SFF-TA-1002 receptacles.

ULTIMATE FLEXIBILITY IN APPLICATIONS, DATA RATES AND PROTOCOLS

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