PCIe Connectivity Datasheet

A practical reference for engineers and technical buyers evaluating MCIO, OCuLink, EDSFF and PCIe connectivity components. Use this document to identify a likely configuration, then confirm compatibility for the complete host-to-device path.

Product Families

MCIO cable assemblies PCIe 5.0 and PCIe 6.0 paths for server, NVMe and high-density PCIe routing.	**OCuLink cables and adapter cards** SFF-8611 and SFF-8612 paths for eGPU, mini PC, NVMe and PCIe expansion.
EDSFF storage connectivity MCIO to EDSFF, E1.S, E1.L, E3.S and E3.L cable and adapter configurations.	**Related PCIe interconnects** U.2, Slim SAS, Mini SAS and adapter card paths for storage and integration projects.

Selection Path

1	**Map the connection**	Document the host port, any adapter, cable ends and endpoint device.
2	**Confirm electrical requirements**	Record the lane count and target PCIe generation for the intended platform.
3	**Confirm mechanical fit**	Measure the installed routing path, connector direction, clearance and required service length.
4	**Prepare the inquiry**	Add quantity, country, application and any validation, shielding or packaging requirements.

Quote-ready information

Include in a B2B inquiry
Application, connector A and B, lane count, PCIe generation, target length, orientation, platform, quantity, country and validation requirements.

Reference Configurations

The models below are reference points for a technical discussion. Confirm the complete connection path and platform compatibility before placing a production order.

Model	Reference configuration	Interface	Typical project
LLS-CB-1MC1MC-01	PCIe 5.0 MCIO x8 to MCIO x8 cable	MCIO x8 to MCIO x8	Server, NVMe and high-density PCIe routing
LLS-CB-1MC1MC-03	PCIe Gen6 MCIO x8 to MCIO x8 cable	MCIO x8 to MCIO x8	Gen6 MCIO connectivity review
LLS-CB-1MC1ED-01	PCIe 5.0 MCIO x4 to EDSFF cable with power	MCIO x4 to EDSFF	E1.S, E1.L, E3.S and E3.L NVMe storage
LLS-CB-1MC2ED-01	PCIe 5.0 MCIO x8 to two EDSFF cable	MCIO x8 to 2 EDSFF	Multi-drive enterprise storage
LLS-CB-1OC1OC-01	PCIe 4.0 OCuLink SFF-8611 4i cable	SFF-8611 4i	eGPU, mini PC and NVMe expansion
LLS-CB-1OC1OC-02	PCIe 4.0 OCuLink SFF-8611 8i cable	SFF-8611 8i	Server, storage and PCIe expansion
LLS-CD-1PC1OC-01	PCIe 4.0 x4 to OCuLink adapter card	PCIe x4 to SFF-8612	Internal NVMe and OCuLink expansion

Interface Checklist

MCIO	Confirm x4, x8 or x16 lane configuration, connector direction, PCIe generation, cable route and endpoint interface.
OCuLink	Confirm SFF-8611 cable side or SFF-8612 board side, 4i/8i lanes, host/device direction and installed cable length.
EDSFF	Confirm E1.S, E1.L, E3.S or E3.L form factor, upstream interface, power arrangement and mechanical fit.

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