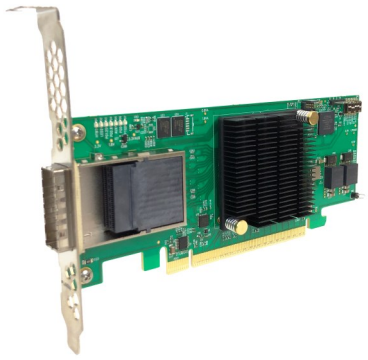
DATASHEET

PCIe x16 Gen 5 Cable Adapter

Part Number: OSS-PCIe5-HIB732-CDFP32-H

FEATURES

- Operates at PCIe Gen 5 speeds up to 32 GT/sec per lane
- Delivers 128 GB/sec (full duplex) bandwidth with x16 lanes
- No drivers required
- Utilizes standard cables with sideband signals to support power control and remote reset (CMI functionality)
- Low profile, half-length form factor
- Guaranteed to operate with all OSS expansion products



PCIe x16 Gen 5 host interface board with a 32-lane switch and PCIe CDFP v0.7 cable connector. The 32-lane cable adapter operates in either host or target mode controlled with DIP switch settings (see user manual for dip switches setting). Installing OSS-PCIe5-HIB732-CDFP32-H in a PCIe slot in a PCIe Gen 5 motherboard and connecting it to an OSS-PCIe5-HIB732-CDFP32-H in target mode or connect to passive HIB, OSS-PCIe5-HIB732-CDFPASS-x16-T via a standard CDFP cable up to 1m allows for data transfer bandwidths up to 128GB/sec. All PCIe devices in the remote chassis appear to the host CPU as directly connected PCIe peripherals on the PCIe switch fabric.

SPECIFICATIONS

Form Factor	PCIe 5.0 x16 low profile, half-length
Dimensions	6.6” x 2.65” (16.76 x 6.73 cm) at 0.063” (1.6mm) thickness
Bandwidth	32GT/sec per lane, 128 GB/sec with x16 lanes
Connectors	PCIe x16 card edge connector Standard CDFP v0.7 connector
Bracket	Standard and low profile brackets available
PCIe Switch	Broadcom PEX 89032 32 GT/sec 32 lane PCI Express Gen 5 Switch Embedded ARM Processor DMA channels/functions enabling data transfers with very low latency Improved SSC Isolation
Switch Latency	150 nsec
Cable Types	Supports the following cable types: o Standard CDFP uplink cables up to 1m o Remote power and reset control
Cable Connection Modes	Single x16 host connection via edge card
Power	20 W Max 1.5A @3.3V 1.2A @12V 250mA@3.3 aux

SPECIFICATIONS CONTINUED

Operating Temperature	-10 C to +50 C
Storage Temperature	-40 C to 85 C
Operating Humidity	10% to 90% relative humidity non-condensing
Storage Humidity	5% to 95% relative humidity non-condensing
Agency Compliance	Designed to meet the following agency standards: o FCC—Part 15 Class A, 47CFR; Canada ICES-003, issue 4, Class A; Japan: VCCI, Class A; CE Emission 2004-108EC o UL/IEC 62368-1; Canada: CSA C22.2 No. 62368-1; Argentina: IEC62368-1; IEC 62368-1 (CB Certificate and CB Test Report) o CE Mark (EN55022 Class A, EN62368-1, EN55024, EN61000-3-2, EN610000-3-3) o CISPR 22, CISPR 24, Class A; Australia/New Zealand AS/NZS CISPR 22, Class A o RoHS 3 Compliance (Directive 2015/863/EC)