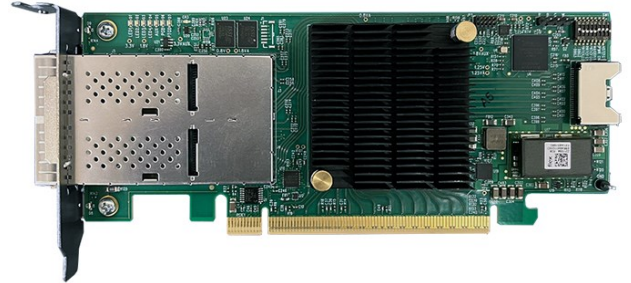


# PCIe x16 Gen 5 Cable Adapter

Part Number: OSS-PCIE5-HIB732-x16-H  
OSS-PCIE5-HIB732-x16-T

## 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 custom QSFP-DD cables with sideband signals to support power control and remote reset (CMI functionality)
- x8 lanes per cable, 2 x8 cables used for x16 link
- Low profile, half-length form factor



PCIe x16 Gen 5 host interface board with PCIe dual QSFP-DD cable connectors that can be configured as x16 or two x8 cable ports. The cable adapter operates in host or target mode controlled with DIP switch settings. With the OSS-PCIE5-HIB732-x16-H installed in a PCIe slot in PCIe Gen 5 motherboard and the OSS-PCIE5-HIB732-x16-T installed in an external target chassis full 128 GB/sec (full duplex) PCIe Gen 5 bandwidth is enabled using dual custom QSFP-DD copper cables up to 2m in length. 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 (full duplex) with x16 lanes
Connectors	PCIe x16 card edge connector Dual QSFP-DD connectors with custom pin-out (OSS cables required) 1 additional internal x8 PCIe ARF connector
Bracket	Standard and low profile brackets available
PCIe Switch	Broadcom PEX 89072 32 GT/sec 72 lane PCI Express Gen 5 Switch DMA Controller SSC Isolation
Switch Latency	150 nsec
Cable Types	Supports the following cable types: <ul style="list-style-type: none"> <li>Custom QSFP-DD PCIe CMI copper cables; .5m, 1m, 2m, 3m</li> <li>Remote power and reset control</li> </ul>
Cable Connection Modes	One x16 host connection via edge card to: <ul style="list-style-type: none"> <li>One x16 cable connection</li> <li>Two x8 cable connections</li> </ul>
Power	20 W Max 1.5A @3.3V 1.2A @12V 250mA@3.3 aux

SPECIFICATIONS CONTINUED

Operating Temperature	0 C to +40 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	<p>Designed to meet the following agency standards:</p> <ul style="list-style-type: none"> <li>o FCC—Part 15 Class A, 47CFR; Canada ICES-003, issue 4, Class A; Japan: VCCI, Class A; CE Emission 2004-108EC</li> <li>o UL/IEC 62368-1; Canada: CSA C22.2 No. 62368-1; Argentina: IEC62368-1; IEC 62368-1 (CB Certificate and CB Test Report)</li> <li>o CE Mark (EN55022 Class A, EN62368-1, EN55024, EN61000-3-2, EN610000-3-3)</li> <li>o CISPR 22, CISPR 24, Class A; Australia/New Zealand AS/NZS CISPR 22, Class A</li> <li>o RoHS 3 Compliance (Directive 2015/863/EC)</li> </ul>