

Mellanox MCX75310AAS-NEAT Datasheet



Mellanox MCX75310AAS-NEAT ConnectX-7 400GbE Single Port OSFP PCI Express 5.0 x16 Network Adapter

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Specifications

- Physical: Adapter Card Size: PCIe Half Height, Half Length 2.71 in. x 6.6 in. (68.90mm x 167.65 mm)
- Interfaces
 - PCI Express Gen 4.0/5.0: SERDES @ 16/32GT/s, x16 lanes (Gen 3.0 compatible)
 - Networking Port: Single OSFP InfiniBand and Ethernet
- Data Rate
 - InfiniBand (Default Mode): NDR/NDR200/HDR/HDR100/EDR/FDR/SDR
 - Ethernet: 400/200/100/50/40/10/1 Gb/s Ethernet
- Protocol Support
 - InfiniBand: IBTA v1.5a
 - Auto-Negotiation: NDR (4 lanes x 100Gb/s per lane) port, NDR200 (2 lanes x 100Gb/s per lane) port, HDR (50Gb/s per lane) port, HDR100 (2 lane x 50Gb/s per lane), EDR (25Gb/s per lane) port, FDR (14.0625Gb/s per lane), 1X/2X/4X SDR (2.5Gb/s per lane).
 - Ethernet: 400GAUI-4 C2M, 400GBASE-CR4, 200GAUI-4 C2M, 200GBASE-CR4, 100GAUI-2 C2M, 100GBASE-CR4, 100GBASE-CR2, 100GBASE-CR1, 50GAUI-2 C2M, 50GAUI-1 C2M, 50GBASE-CR, 50GBASE-R2 , 40GBASE-CR4, 40GBASE-R2, 25GBASE-R, 10GBASE-R, 10GBASE-CX4, 1000BASE-CX, CAUI-4 C2M, 25GAUI C2M, XLAUI C2M , XLPP1, SFI
- Capabilities

- MCX75310AAC-NEAT Secure Boot Enabled, Crypto Enabled
- MCX75310AAS-NEAT Secure Boot Enabled, Crypto Disabled
- Electrical and Thermal Specifications
 - Voltage: 12V, 3.3VAUX
 - Maximum current: 100mA
 - Maximum power available through OSFP port: 17W (Not thermally supported)
 - Electrical and thermal specifications are provided in NVIDIA ConnectX-7 Electrical and Thermal Specifications document, which is available at NVOnline following login.
- Environmental
 - Temperature
 - Operational: 0°C to 55°C
 - Non-operational: -40°C to 70°C
 - Humidity
 - Operational: 10% to 85% relative humidity
 - Non-operational 10% to 90% relative humidity
 - Altitude (Operational) 3050m
- Regulatory
 - Safety: CB / cTUVus / CE
 - EMC: CE / FCC / VCCI / ICES / RCM / KC
 - RoHS: RoHS Compliant

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