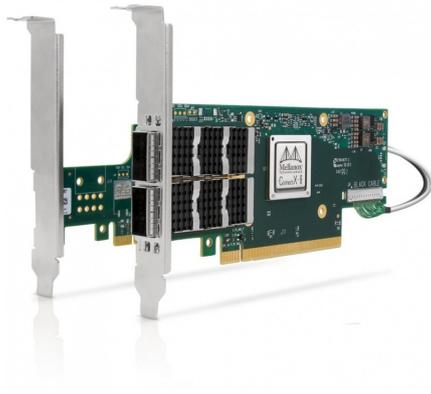


Mellanox MCX614105A-VCAT Datasheet



Mellanox MCX614105A-VCAT ConnectX-6 EN adapter card kit, 200GbE, single-port QSFP56, Socket Direct 2x PCIe3.0 x16, tall brackets

MCX614105A-VCAT

NVIDIA MCX614105A-VCAT ConnectX-6 EN Adapter Card 200GbE Single-Port QSFP56 Socket Direct 2x PCIe 3.0 x16 Tall Brackets

ConnectX-6 EN Card 200GbE Ethernet Adapter Card

World's first 200GbE Ethernet network interface card, enabling industry-leading performance smart offloads and in-network computing for Cloud, Web 2.0, Big Data, Storage and Machine Learning applications.

ConnectX-6 EN provides up to two ports of 200GbE connectivity, sub 0.8usec latency and 215 million messages per second, enabling the highest performance and most flexible solution for the most demanding data center applications.

ConnectX-6 is a groundbreaking addition to the ConnectX series of industry-leading adapter cards. In addition to all the existing innovative features of past versions, ConnectX-6 offers a number of enhancements to further improve performance and scalability, such as support for 200/100/50/40/25/10/1 GbE Ethernet speeds and PCIe Gen 4.0. Moreover, ConnectX-6 Ethernet cards can connect up to 32-lanes of PCIe to achieve 200Gb/s of bandwidth, even on Gen 3.0 PCIe systems.

Features

- Up to 200GbE connectivity per port
- Maximum bandwidth of 200Gb/s
- Up to 215 million messages/sec
- Sub 0.8usec latency
- Block-level XTS-AES mode hardware encryption
- Optional FIPS-compliant adapter card
- Support both 50G SerDes (PAM4) and 25G SerDes (NRZ) based ports
- Best-in-class packet pacing with sub-nanosecond accuracy
- PCIe Gen4/Gen3 with up to x32 lanes
- RoHS compliant
- ODCC compatible

Benefits

- Most intelligent, highest performance fabric for compute and storage infrastructures
- Cutting-edge performance in virtualized HPC networks including Network Function Virtualization (NFV)
- Advanced storage capabilities including block-level encryption and checksum offloads
- Host Chaining technology for economical rack design
- Smart interconnect for x86, Power, Arm, GPU and FPGA-based platforms
- Flexible programmable pipeline for new network flows
- Enabler for efficient service chaining
- Efficient I/O consolidation, lowering data center costs and complexity

For more specifications of this MCX614105A-VCAT, please visit below Mellanox website:

<https://docs.mellanox.com/display/ConnectX6EN/Specifications#Specifications-MCX614105A-VCATSpecifications>

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