

# Mellanox MCX556A-ECAT Datasheet



Mellanox MCX556A-ECAT ConnectX-5 VPI adapter card, EDR IB (100Gb/s) and 100GbE, dual-port QSFP28, PCIe3.0 x16, tall bracket

MCX556A-ECAT

NVIDIA MCX556A-ECAT ConnectX-5 VPI Adapter Card EDR InfiniBand and 100GbE Dual-Port QSFP28 PCIe 3.0 x16 Tall Bracket ROHS R6

100Gb/s InfiniBand & Ethernet (VPI) Adapter Card

ConnectX-4 network adapter cards with Virtual Protocol Interconnect (VPI), supporting FDR IB and 40/56GbE connectivity, provide the highest performance and most flexible solution for high-performance, Web 2.0, Cloud, data analytics, database, and storage platforms.

With the exponential growth of data being shared and stored by applications and social networks, the need for high-speed and high performance compute and storage data centers is skyrocketing.

ConnectX-4 provides exceptional high performance for the most demanding data centers, public and private clouds, Web2.0 and Big Data applications, as well as High-Performance Computing (HPC) and Storage systems, enabling today's corporations to meet the demands of the data explosion.

## Features

- Tag matching and rendezvous offloads
- Adaptive routing on reliable transport
- Burst buffer offloads for background checkpointing
- NVMe over Fabric (NVMe-oF) offloads
- Back-end switch elimination by host chaining
- Embedded PCIe switch
- Enhanced vSwitch/vRouter offloads
- Flexible pipeline
- RoCE for overlay networks
- PCIe Gen 4.0 support
- RoHS compliant
- ODCC compatible

## Benefits

- Up to 100Gb/s connectivity per port
- Industry-leading throughput, low latency, low CPU utilization and high message rate
- Innovative rack design for storage and Machine Learning based on Host Chaining technology
- Smart interconnect for x86, Power, Arm, and GPU-based compute and storage platforms
- Advanced storage capabilities including NVMe over Fabric offloads
- Intelligent network adapter supporting flexible pipeline programmability
- Cutting-edge performance in virtualized networks including Network Function Virtualization (NFV)
- Enabler for efficient service chaining capabilities
- Efficient I/O consolidation, lowering data center costs and complexity

For more specifications of this MCX556A-ECAT, please visit below Mellanox website:

<https://www.mellanox.com/files/doc-2020/pb-connectx-5-vpi-card.pdf>

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