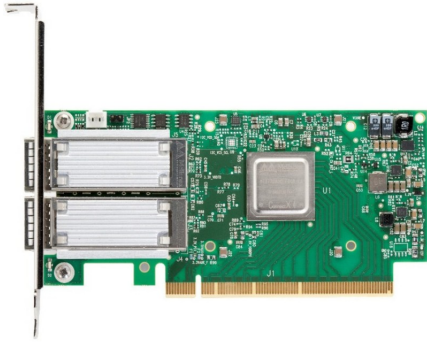


# Mellanox MCX416A-GCAT Datasheet



Mellanox MCX416A-GCAT ConnectX-4 EN Network Interface Card, 50GbE Dual-port QSFP28, PCIe3.0 x16, tall bracket

MCX416A-GCAT

Genuine Mellanox MCX416A-GCAT ConnectX-4 EN Network Interface Card, 50GbE Dual-port QSFP28, PCIe3.0 x16, tall bracket

Mellanox ConnectX-4 EN network controller cards with 100Gb/s Ethernet connectivity provides a high performance and flexible solution for 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 EN provides high performance for demanding data centers, public and private clouds, Web 2.0 and Big Data applications, and storage systems, enabling today's corporations to meet the demands of the data explosion.

ConnectX-4 EN provides an unmatched combination of 100Gb/s bandwidth in a single port, low latency, and specific hardware offloads, addressing both today's and the next generation's compute and storage data center demands

## NEW FEATURES

- 100Gb/s Ethernet per port

- 1/10/25/40/50/56/100 Gb/s speeds
- Single and dual-port options available
- T10-DIF Signature Handover
- CPU offloading of transport operations
- Application offloading
- Mellanox PeerDirect communication acceleration
- Hardware offloads for NVGRE, VXLAN and GENEVE encapsulated traffic
- End-to-end QoS and congestion control
- Hardware-based I/O virtualization
- RoHS compliant
- ODCC compatible

## BENEFITS

- High performance silicon for applications requiring high bandwidth, low latency and high message rate
- World-class cluster, network, and storage performance
- Smart interconnect for x86, Power, Arm, and GPU-based compute and storage platforms
- Cutting-edge performance in virtualized overlay networks NVGRE and GENEVE
- Efficient I/O consolidation, lowering data center costs and complexity
- Virtualization acceleration
- Power efficiency
- Scalability to tens-of-thousands of nodes

For more specifications of this MCX416A-GCAT, please visit below Mellanox website:

<https://www.mellanox.com/files/doc-2020/pb-connectx-4-en-card.pdf>

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