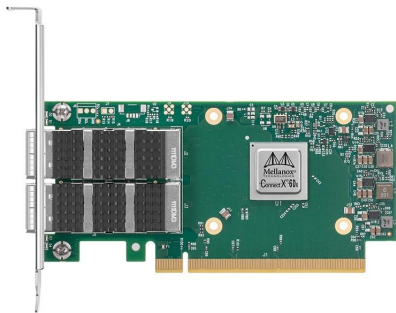# Mellanox MCX623106AN-CDAT Datasheet

Mellanox MCX623106AN-CDAT ConnectX-6 Dx EN adapter card, 100GbE, Dual-port QSFP56, PCIe 4.0 x16, No Crypto, Tall Bracket

MCX623106AN-CDAT

NVIDIA MCX623106AN-CDAT ConnectX-6 Dx EN Adapter Card 100GbE Dual-Port QSFP56 PCIe 4.0 x16 No Crypto Tall Bracket

NVIDIA ConnectX-6 DX Ethernet SmartNIC

ConnectX-6 Dx SmartNIC is the industry's most secure and advanced cloud network interface card to accelerate mission-critical data-center applications, such as security, virtualization, SDN/NFV, big data, machine learning, and storage. The SmartNIC delivers the highest return on investment (ROI) of any smart network interface card.

ConnectX-6 Dx is a member of NVIDIA's world-class, award-winning ConnectX series of network adapters powered by leading 50 Gb/s (PAM4) and 25/10 Gb/s (NRZ) SerDes technology and novel capabilities that accelerate cloud and data-center payloads.

SmartNIC Portfolio

- 1/10/25/40/50/100 Gb/s Ethernet, PAM4/NRZ
- Various form factors:
  - PCIe low-profile
  - OCP 3.0 Small Form Factor (SFF)
  - OCP 2.0
- Connectivity options:
  - SFP28, SFP56, QSFP28, QSFP56
- PCIe Gen 3.0/4.0 x16 host interface
- Multi-host and single-host flavors
- Crypto and non-crypto versions

Key Features

- Up to 100 Gb/s bandwidth
- Message rate of up to 215 Mpps
- Sub 0.8 usec latency
- Flexible programmable pipeline for new network flows
- Multi-Host with advanced QoS
- ASAP2 - Accelerated Switching and Packet Processing for virtual switches/routers
- Overlay tunneling technologies
- IPsec and TLS in-line crypto acceleration
- Block crypto acceleration for data-at-rest
- Hardware Root-of-Trust and secure firmware update
- Connection Tracking offload
- Advanced RoCE capabilities
- Best in class PTP for TSN applications
- GPUDirect for GPU-to-GPU communication
- Host chaining technology for economical rack design
- Platform agnostic: x86, Power, Arm
- ODCC compatible

Solutions

- Cloud-native, Web 2.0, hyperscale
- Enterprise data-centers
- Cyber security
- Big data analytics
- Scale-out compute and storage infrastructure
- Telco and Network Function Virtualization (NFV)
- Cloud storage
- Machine Learning (ML) & Artificial Intelligence (AI)
- Media and Entertainment

For more specifications of this MCX623106AN-CDAT, please visit below Mellanox website:

https://www.mellanox.com/files/doc-2020/pb-connectx-6-dx-en-card.pdf

[Buy Now](#)