

Mellanox MCX621102AN-ADAT Datasheet



Mellanox MCX621102AN-ADAT ConnectX-6 Dx EN adapter card, 25GbE, Dual-port SFP28, PCIe 4.0 x8, No Crypto, Tall Bracket

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Manufacturer Part Number: MCX621102AN-ADAT

Technology: Ethernet

Max Speed: 25GbE

Ports: Dual

Connector Type: SFP28

ECCN: 5A991

Features and Benefits:

- NVIDIA ConnectX-6 DX Ethernet SmartNIC
- ConnectX-6 Dx SmartNIC MCX621102AN-ADAT 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 Gb/s Ethernet, PAM4/NRZ
 - Various form factors:
 - PCIe low-profile
 - OCP 3.0 Small Form Factor (SFF)
 - OCP 2.0
 - Connectivity options:
 - SFP28
 - PCIe Gen 4.0 x8 host interface
 - Multi-host and single-host flavors
 - Crypto and non-crypto versions

Key Features

- Up to 25 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

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