P/N: AI LM2502 OCP DA2



OCP3.0 Mellanox ConnectX-4 LX Dual-25G SFP28 RDMA NIC

Product Overview

High-performance **OCP 3.0 Dual-Port 25GbE SFP28 Network Adapter** designed for next-generation data centers and cloud environments. Powered by Mellanox ConnectX-4 LX, it delivers **ultra-low latency, high throughput, and advanced RDMA capabilities** for demanding workloads.

Key Features

Dual-port **25GbE SFP28 connectivity**, **OCP NIC 3.0 Small Form Factor (SFF)**
Ultra-low latency (**sub-microsecond**), High performance (**75M packets/sec**)
RDMA over Converged Ethernet (RoCE), **GPUDirect / PeerDirect support**
Advanced **SR-IOV (up to 256 VFs)**, **VXLAN / NVGRE offload support**
Jumbo Frames up to **9.6KB**, Full hardware **TCP/UDP/IP offloading**
Enhanced **QoS & virtualization support**, **Hardware-based I/O isolation**
Overlay network acceleration (VXLAN, NVGRE), **Multi-host technology**
Remote boot (PXE / iSCSI / UEFI), Energy Efficient Ethernet (**802.3az**)
Support for high-performance MPI environments

Technical Specifications

Chipset: Mellanox ConnectX-4 LX
Form Factor: OCP 3.0 SFF
Ports: 2 × SFP28
Speed per Port: 1G / 10G / 25Gbps
Encoding: 64/66
Interface: OCP 3.0 (PCIe Gen3 compatible)
Standards: IEEE 802.3by, 802.3ad, 802.1Q, 802.1Qbb, IEEE1588v2
Operating Systems: Windows (7/8/10/11/Server), Linux, FreeBSD, VMware ESXi
Hardware Requirement: OCP 3.0 SFF slot