

## **MCX653106A-HDAT-AO**

Mellanox MCX653106A-HDAT ConnectX®-6 InfiniBand/Ethernet Adapter Card 200GbE/HDR, Dual-Port QSFP56, PCIe 4.0 x 16, Tall and Short Bracket

### **Features**

- PCI Express v4.0 x16 dual port 200G fiber Ethernet
- Network Interface Card
- Intel XL710
- RDMA memory access
- Compatible with InfiniBand protocol
- 1588PTP v2
- IEEE 802.3

### **Product Description**

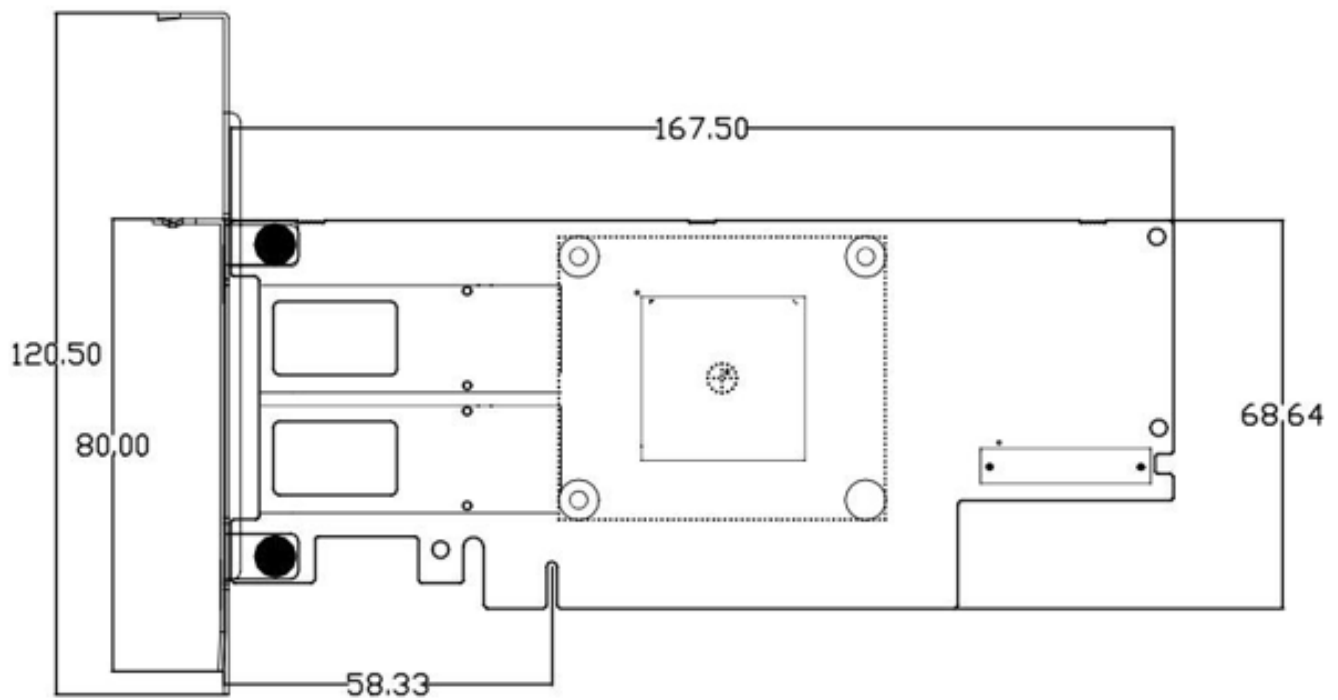
This is a Mellanox MCX653106A-HDAT ConnectX®-5 EN Network Interface Card, 200GbE Dual-Port QSFP56, PCIe4.0 x 16 network interface card with a Dual-Port QSFP56 port that complies with IEEE 802.3 standards. It is based on an Intel XL710 chipset and is compatible with a variety of different applications and operating systems, including Windows, Linux and Unix-like systems. Providing 200Gbs of network speed, it fully supports high-end servers and various other networking applications. In addition, this card supports high level VLAN filtering. The Dual-Port QSFP56 allows users to choose from a range of QSFP56 transceivers to accommodate multi-mode (MMF) and single-mode (SMF) fiber, granting customizable reach. This product includes both half-height and full-height brackets. Our network interface cards are 100% compliant, and offer a cost effective solution for all of your network upgrade needs. With our certification test program, we guarantee your product will work right the first time.

## Specifications

Parameter	Specifications	
<b>Controller</b>	Mellanox ConnectX-6	
<b>Baffle Height</b>	Low Profile & Full Height	
<b>Power Consumption</b>	Minimum: 16.176, Maximum: 29.52W	
<b>System Support</b>	Windows 10 /11	FreeBSD 13.2
	Windows Server 2016/2019/2022	NewStartOS 4.5.2
	Deepin 15.11 /20 /20.6 /20.9	UOS 20
	VMware ESXi 6.7	OpenEuler 24.03
	RHEL/CentOS 7.6 /7.9 /8.2 /8.3	Debian 12.5.0
	Ubuntu 16.04.3 /18.04.5	FusionOS 23.06
	Ubuntu 20.04.3 /22.04.2/24.04.3	Rockey 9.4
	SUSE 15.4	Fangde Desktop OS 4.0
	Galaxy Kirin v10 SP1	Fangde Server OS 5.0
	NeoKirin 7.6	iKuai Routing OS
	OpenKirin 2.0	
<b>Bus Type</b>	PCIe v4.0 (16GT/s) x16	
<b>Data Rate Supported Per Port</b>	1G/10G/25G/40G/50G/100G/200Gbps	
<b>Connector</b>	2 * QSFP56	
<b>Technical Features</b>		
<b>Protocol Support</b>	IEEE 802.3cd, 50, 100 and 200 Gigabit Ethernet IEEE 802.3bj, 802.3bm 100 Gigabit Ethernet IEEE 802.3by, Ethernet Technology Consortium 25, 50 Gigabit Ethernet IEEE 802.3ba 40 Gigabit Ethernet IEEE 802.3ae 10 Gigabit Ethernet IEEE 802.3az Energy Efficient Ethernet IEEE 802.3ap Based Auto-Negotiation and KR Start-Up IEEE 802.3ad, 802.1AX Link Aggregation IEEE 802.1Q, 802.1P VLAN Tags and Priority IEEE 802.1Qau (QCN) Congestion Notification IEEE 802.1Qaz (ETS) IEEE 802.1Qbb (PFC) IEEE 802.1Qbg	
<b>PXE</b>	Yes	
<b>UEFI</b>	Yes	
<b>IB</b>	Yes	
<b>1588 PTP</b>	Yes	
<b>SR-IOV</b>	Yes	
<b>RDMA</b>	Yes	
<b>Network Virtualization</b>	VXLAN/NVGRE	

<b>ESD_Contact Discharge</b>	±8KV
<b>Jumbo Frames</b>	9.9KB
<b>Environmental Features</b>	
<b>Operating Temperature</b>	-10°C to 60°C
<b>Storage Temperature</b>	-40 °C to 70 °C
<b>Storage Humidity</b>	Maximum: 90% Non-Condensing Relative Humidity at 35°C
<b>LED Indicators</b>	
<b>LED Indicators</b>	200/100/40Gbps, Green Link + Green Blink
<b>Physical Features</b>	
<b>Size (mm)</b>	68.64*167.5*1.6

### Mechanical Specifications



## About AddOn Networks

In 1999, AddOn Networks entered the market with a single product. Our founders fulfilled a severe shortage for compatible, cost-effective optical transceivers that compete at the same performance levels as leading OEM manufacturers. Adhering to the idea of redefining service and product quality not previously had in the fiber optic networking industry, AddOn invested resources in solution design, production, fulfillment, and global support.

Combining one of the most extensive and stringent testing processes in the industry, an exceptional free tech support center, and a consistent roll-out of innovative technologies, AddOn has continually set industry standards of quality and reliability throughout its history.

Reliability is the cornerstone of any optical fiber network and is ingrained in AddOn's DNA. It has played a key role in nurturing the long-term relationships developed over the years with customers. AddOn remains committed to exceeding industry standards with certifications from ranging from NEBS Level 3 to ISO 9001:2005 with every new development while maintaining the signature reliability of its products.



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