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Intel X710 Series Ethernet Network Adapter Datasheet

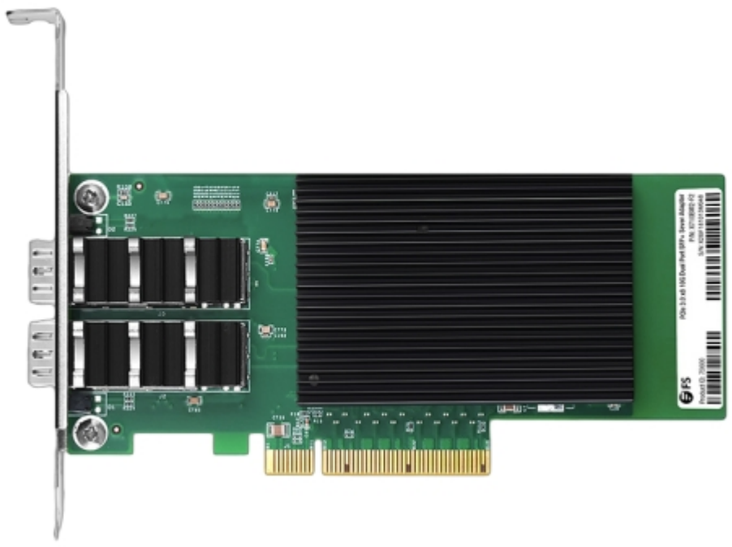
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Overview

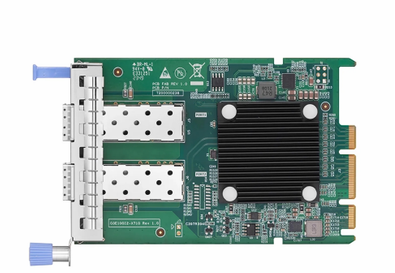
The Intel® Ethernet Controller X710 offers dual-port 10GbE, and is backward compatible with 1GbE. The X710 is part of the Intel® Ethernet 700 Series, the foundation for server connectivity, providing broad interoperability, critical performance optimizations, and increased agility for Communications, Cloud, and Enterprise IT network solutions.

Intel® Ethernet 700 Series delivers networking performance across a wide range of network port speeds through intelligent offloads, sophisticated packet processing, and quality open source drivers.

- **Interoperability**- Multiple speeds and media types for broad compatibility backed by extensive testing and validation.
- **Optimization** - Intelligent offloads and accelerators to unlock network performance in servers with Intel® Xeon® processors.
- **Agility** - Both Kernel and Data Plane Development Kit (DPDK) drivers for scalable packet processing.



X710BM2-2SP



X710BM2-2SN（OCP 3.0）

Product Specifications

Attribute	X710BM2-2SP	X710BM2-2SN
Ports	Dual	Dual
Data Rate Per Port	1/10GbE	1/10GbE
Link Rate	8.0 GT/s	8.0 GT/s
Power Consumption	6.9W	6.9W
System Interface Type	PCIe 3.0 x 8	PCIe 3.0 x 8
Adapter Type	PCIe NIC	OCP 3.0
Bracket Height	Full Height and Low Profile	Thumbscrew (Pull-tab) Bracket
Card PCB Dimensions (WxD)	5.91"x2.68" (150x68mm) (without bracket)	4.59x2.99" (116.61x76mm)withbracket
Operatin Temperature	0 °C to 55 °C (32 °F to 131 °F)	0 °C to 55 °C (32 °F to 131 °F)
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)	-40 °C to 70 °C (-40 °F to 158 °F)

Features

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Virtualization Interface Features

- Driver Optimizations and VMDQ enablement
- PF and VF assignment with SR-IOV
- Virtual Functions:Up to 128 per device
- VxLAN, GENEVE, MACinUDP, NVGRE, IPinGRE, DDP, DPDK
- Intel® Data Direct I/O Technology
- VEPA/802.1Qbg

Management Interface Features

- IPMI and BMC pass through
- OS2BMC
- MCTP (SMBus and PCIe)
- DMTF NC-SI Pass-Through
- SMBus Pass-Through
- Advanced Filtering Capabilities (IPv4, IPv6)
- PXE FLASH Interface Support
- SNMP
- RMON Statistic Counters
- IEEE 1588

Storage Interface Features

- iSCSI Acceleration

TCP/IP/L2 Features

- Receive Side Scaling (RSS) for TCP and UDP traffic
- Large Send Off-load (LSO) / Generic Send Off-load (GSO) including encapsulated traffic
- TCP/UDP/IP/SCTP Checksum Off-load including encapsulated traffic
- IPv4, IPv6

Additional Features

- Enhanced Transmission Selection (draft IEEE 802.1az)
- Priority Flow Control (draft IEEE 802.1Qbb)
- Data Center Bridging (DCB/DCB-X) Support
- VLAN Support

Order Information

Part No.	Product ID	Product Description
X710BM2-2SP	75600	Intel X710-BM2 Based Ethernet Network Interface Card, 10G Dual-Port SFP+, PCIe 3.0 x 8, Comparable to Intel X710-DA2, Full Height&Low Profile
X710BM2-2SN	327365	Intel X710-BM2 Based Ethernet Network Interface Card, 10G Dual-Port SFP+, OCP 3.0, PCIe 3.0 x 8, Comparable to Intel X710-DA2 OCP 3.0, Thumbscrew (Pull-tab) Bracket

- Supported Operating Systems: Linux, Windows, and FreeBSD. For more information, read the Supported Operating Systems for Intel-based Ethernet Adapter Cards
- Supported Transceivers/Cables: Transceivers, DACs and AOCs Supported on Intel Based NICs

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