

NIC/PCIe up to 10Gb SFP+x 2 Bulk (X710DA2BLK)

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The X710 adapter offers two ports of 10GbE and is backwards compatible to 1GbE. Intel Ethernet 700 Series Network Adapters are the foundation for server connectivity, providing broad interoperability, critical performance optimizations, and increased agility for Telecommunications, Cloud, and Enterprise IT network solutions.

Key Selling Points

Data protocols: 10 Gigabit Ethernet, iSCSI, NFS, SMB  
Data transfer rate: 10Gbps, 1Gbps

Product Features

- Enhanced connectivity**  
With dual SFP+ connectors, this Intel Ethernet Converged Network Adapter X710-DA2 facilitates 1Gb and 10Gb Ethernet connections, ensuring versatile and high-speed network connectivity for demanding data environments.
- Robust performance**  
Supporting a data transfer rate of up to 10 Gbps, the adapter is engineered for efficient networking, featuring technologies like Data Center Bridging (DCB), Quality of Service (QoS), and TCP/IP offloading to enhance data flow efficiency.
- Advanced networking features**  
Equipped with a suite of features such as IPv4 and IPv6 support, Energy Efficient Ethernet, and adaptive load balancing (ALB), this adapter is designed to optimize network operations and improve resource utilization.
- Comprehensive standards compliance**  
Meeting a wide array of compliance standards including IEEE 802.1Q, RoHS, and FCC Class B, the Intel Ethernet Converged Network Adapter X710-DA2 is built to ensure reliability and adherence to global regulatory requirements.
- Virtualization and management**  
The adapter supports Single Root I/O Virtualization (SR-IOV), Virtual Machine Device Queues (VMDq), and remote management protocols like SNMP and RMON, facilitating efficient virtualization and network management.

Main specifications

|                              |                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description          | Intel Ethernet Converged Network Adapter X710-DA2 - network adapter - PCIe 3.0 x8 - 10 Gigabit SFP+ x 2                                                                                                                                                                                                                                                                               |
| Device Type                  | Network adapter                                                                                                                                                                                                                                                                                                                                                                       |
| Form Factor                  | Plug-in card - low profile                                                                                                                                                                                                                                                                                                                                                            |
| Interface (Bus) Type         | PCI Express 3.0 x8                                                                                                                                                                                                                                                                                                                                                                    |
| Ports                        | 10 Gigabit SFP+ x 2                                                                                                                                                                                                                                                                                                                                                                   |
| Dimensions (WxDxH)           | 16.7 cm x 6.9 cm                                                                                                                                                                                                                                                                                                                                                                      |
| Data Link Protocol           | 1GbE, 10GbE                                                                                                                                                                                                                                                                                                                                                                           |
| Data Transfer Rate           | 10 Gbps                                                                                                                                                                                                                                                                                                                                                                               |
| Network / Transport Protocol | TCP/IP, UDP/IP, iSCSI, SMB, NFS                                                                                                                                                                                                                                                                                                                                                       |
| Compliant Standards          | IEEE 802.3, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3ad (LACP), IEEE 802.1as, IEEE 802.1Qbg                                                                                                                                                                                                                                                                                                |
| System Requirements          | Red Hat Linux 7.0, Microsoft Windows Server 2008 x64 Edition, Microsoft Windows Server 2008 R2 x64 Edition, Linux Kernel 2.6.32, FreeBSD 9, VMware ESXi 5.1, Microsoft Windows Server 2012 x64 Edition, Microsoft Windows Server 2012 R2 x64 Edition, SuSE Linux Enterprise Server 11 SP3, Red Hat Enterprise Linux 6.5, VMware ESXi 5.5, FreeBSD 10, SuSE Linux Enterprise Server 12 |
| Manufacturer Warranty        | Limited lifetime warranty                                                                                                                                                                                                                                                                                                                                                             |

Extended specification

General

|             |                            |
|-------------|----------------------------|
| Device Type | Network adapter            |
| Form Factor | Plug-in card - low profile |

|                      |                    |
|----------------------|--------------------|
| Interface (Bus) Type | PCI Express 3.0 x8 |
|----------------------|--------------------|

## Expansion / Connectivity

|            |                                       |
|------------|---------------------------------------|
| Interfaces | 2 x 1Gb Ethernet/10Gb Ethernet - SFP+ |
|------------|---------------------------------------|

## Manufacturer Warranty

|                   |                             |
|-------------------|-----------------------------|
| Service & Support | Limited warranty - lifetime |
|-------------------|-----------------------------|

## Networking

|                              |                                                                                                                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ports                        | 10 Gigabit SFP+ x 2                                                                                                                                                                                                                                                 |
| Connectivity Technology      | Wired                                                                                                                                                                                                                                                               |
| Data Link Protocol           | Gigabit Ethernet, 10 Gigabit Ethernet                                                                                                                                                                                                                               |
| Data Transfer Rate           | 10 Gbps                                                                                                                                                                                                                                                             |
| Network / Transport Protocol | TCP/IP, UDP/IP, iSCSI, SMB, NFS                                                                                                                                                                                                                                     |
| Remote Management Protocol   | SNMP, RMON                                                                                                                                                                                                                                                          |
| Status Indicators            | Port transmission speed, link/activity                                                                                                                                                                                                                              |
| Features                     | Flow control, VLAN support, packet filtering, IPv6 support, TCP/IP offloading, QoS, VMDq, IPv4 support, teaming support, PXE support, LSO, GSO, RSS, SR-IOV, DCB, ALB, Energy Efficient Ethernet, TSO, checksum offload support, UDP/IP offloading, WDT, iSCSI boot |
| Compliant Standards          | IEEE 802.3, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3ad (LACP), IEEE 802.1as, IEEE 802.1Qbg                                                                                                                                                                              |

## Miscellaneous

|                     |                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------|
| Compliant Standards | FCC Class B certified, UL, VCCI, C-Tick, BSMI, RoHS, KCC, Directive 2011/65/EU, MSA SFF-8431 |
| Package Type        | Bulk                                                                                         |

## Software / System Requirements

|             |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OS Required | Red Hat Linux 7.0, Microsoft Windows Server 2008 x64 Edition, Microsoft Windows Server 2008 R2 x64 Edition, Linux Kernel 2.6.32, FreeBSD 9, VMware ESXi 5.1, Microsoft Windows Server 2012 x64 Edition, Microsoft Windows Server 2012 R2 x64 Edition, SuSE Linux Enterprise Server 11 SP3, Red Hat Enterprise Linux 6.5, VMware ESXi 5.5, FreeBSD 10, SuSE Linux Enterprise Server 12 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Environmental Parameters

|                           |       |
|---------------------------|-------|
| Min Operating Temperature | 0 °C  |
| Max Operating Temperature | 55 °C |

## Dimensions & Weight

|        |         |
|--------|---------|
| Depth  | 16.7 cm |
| Height | 6.9 cm  |

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet