

2-Port 10Gbps SFP+ OCP 3.0 Server Network Card with Intel X710, SFF 4C+ Compatible, Dual-Port OCP NIC, Works with Windows & Linux

**Product ID:** O1210I-NETWORK-CARD



The 2-port 10Gbps OCP network interface card with the Intel X710-BM2 controller adds two open SFP+ slots to a server, increasing connectivity options and network performance.

The network adapter card uses the Open Compute Project (OCP) 3.0 (168-pin 4C+) connector, which was designed for servers to reduce size, increase port density, and provide hot-swappable capabilities for simplified maintenance and upgrades. The PCI Express Network Card is compatible with PCIe versions 3.0, 2.1, and 2.0.

This card supports 1000Base-T/SX/LX/EX and 10GBase-SR/LR/CR for various network configurations and distances. This is ideal for high-speed, low-latency connections such as those used in virtualization, data centers, and cloud computing. It works with any single-mode or multimode MSA-compliant or branded SFP or SFP+ module, active optical cable (AOC), or direct attach copper cable (DAC). Optical fiber allows longer cable runs than copper cabling while eliminating EMI.

*Note: 10Gbps Copper SFP+ modules are not supported*

Network virtualization offloads reduce CPU overhead, increasing the efficiency of the virtualized network. PXE boot enables centralized OS deployment and updates. The card also supports 9K jumbo frames for reduced packet overhead and VLAN support for efficient network management. The card is compatible with Windows Server, Windows, and Linux.

## Certifications, Reports and Compatibility





## Applications

- Create a high-speed and flexible network infrastructure in data centers or enterprise networks
- Dual ports allow for redundancy and load balancing, enhancing network reliability and performance

## Features

- **10G OCP NETWORK CARD:** 10Gbps Network Interface Card w/Intel X710-BM2 Controller adds 2x open SFP+ slots to a server, enhancing connectivity options/network performance; Ideal for high-speed, low-latency connections (e.g., virtualization, cloud computing)
- **REDUCED DOWNTIME:** Network Adapter Card uses the OCP (Open Compute Project) 3.0 port (168-Pin 4C+), developed for servers to reduce size, increase port density, and provide hot-swappable capabilities for simplified maintenance and upgrades
- **UNLOCKED SFP+ SLOTS:** Works with any single-mode/multimode MSA-compliant or branded SFP or SFP+ modules, active optical cables (AOC), or direct attach copper cables (DAC); Optical fiber allows for longer cable runs than copper cabling while eliminating EMI
- **COMPATIBILITY:** Works with Windows Server 2012 & up, Windows 10 & up, and Linux; PCIe NIC is compatible with PCIe 3.0, 2.1, and 2.0; Supports 1000Base-T/SX/LX/EX and 10GBase-SR/LR/CR; *Note: 10Gbps Copper SFP+ modules are not supported*
- **IT MANAGEMENT:** Network Virtualization offloads reduce CPU overhead, enhancing virtualized network efficiency; PXE boot enables centralized OS deployment/updates; 9K jumbo frames for reduced packet overhead; VLAN support for efficient network management

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## Hardware

|                    |                                               |
|--------------------|-----------------------------------------------|
| Warranty           | 2 Years                                       |
| Ports              | 2                                             |
| Interface          | Fiber (10 Gigabit Ethernet)<br>Fiber Ethernet |
| Bus Type           | OCP 3.0                                       |
| Card Type          | OCP (Open Compute Project)                    |
| Port Style         | Integrated on Card                            |
| Industry Standards | IEEE 802.3 (Ethernet)                         |

IEEE 802.3ae (10 Gigabit Ethernet)  
IEEE 802.1Q (Virtual LAN)  
IEEE 802.1p (Quality of Service)  
IEEE 802.1ad (Provider Bridging / Q-in-Q)  
IEEE 802.3ad (Link Aggregation)  
IEEE 1588 (Precision Time Protocol)  
SFF-TA-1002 Compliant 4C+ Connector

Chipset ID Intel X710-BM2

## Performance

|                            |                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wake On Lan                | Yes                                                                                                                                                                                                                                   |
| Maximum Data Transfer Rate | 10Gbps                                                                                                                                                                                                                                |
| Type                       | Single Mode / Multi Mode<br>Copper                                                                                                                                                                                                    |
| Compatible Networks        | 1Gbps / 10Gbps                                                                                                                                                                                                                        |
| PXE                        | Yes                                                                                                                                                                                                                                   |
| Full Duplex Support        | Yes                                                                                                                                                                                                                                   |
| Jumbo Frame Support        | 9K max.                                                                                                                                                                                                                               |
| Promiscuous Mode           | Yes                                                                                                                                                                                                                                   |
| General Specifications     | VMDq Support<br>SR-IOV Support<br>Dynamic Device Personalization (DDP)<br>Data Plane Development Kit (DPDK)<br>Network Virtualization Offloads (NVO) including VxLAN, GENEVE, NVGRE, and VxLAN-GPE with Network Service Headers (NSH) |

## Connector(s)

|                |               |
|----------------|---------------|
| External Ports | 2 - SFP+ Slot |
|----------------|---------------|

|                                     |                       |                                                                                                                                                                                                         |
|-------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | Host Connectors       | 1 - 4C+ (168-Pin)                                                                                                                                                                                       |
| <b>Software</b>                     |                       |                                                                                                                                                                                                         |
|                                     | OS Compatibility      | Windows Server 2012, 2012 R2, 2016, 2019, 2022<br>Windows 10, 11<br>Linux 2.6.x and up - LTS Versions only                                                                                              |
| <b>Special Notes / Requirements</b> |                       |                                                                                                                                                                                                         |
|                                     | Note                  | - Intel NIC Teaming is supported only on Windows Server OS (e.g., Server 2012, 2016) and not on desktop versions like Windows 10 or 11.                                                                 |
| <b>Indicators</b>                   |                       |                                                                                                                                                                                                         |
|                                     | LED Indicators        | 1 - Activity LED:<br>Flash Green: Indicate activity<br><br>1 - Link LED:<br>Solid Green: Indicate a 10Gbps link<br>Solid Orange: Indicate a 1Gbps link<br>Off: Indicates no active connection is detect |
| <b>Power</b>                        |                       |                                                                                                                                                                                                         |
|                                     | Power Source          | Bus Powered                                                                                                                                                                                             |
| <b>Environmental</b>                |                       |                                                                                                                                                                                                         |
|                                     | Operating Temperature | 0C - 60C (32F - 140F)                                                                                                                                                                                   |
|                                     | Storage Temperature   | -10C - 70C (14F - 158F)                                                                                                                                                                                 |
|                                     | Humidity              | 5% ~ 90% RH                                                                                                                                                                                             |
| <b>Physical Characteristics</b>     |                       |                                                                                                                                                                                                         |
|                                     | Color                 | Black                                                                                                                                                                                                   |
|                                     | Product Length        | 5.2 in [13.2 cm]                                                                                                                                                                                        |
|                                     | Product Width         | 3.3 in [8.5 cm]                                                                                                                                                                                         |
|                                     | Product Height        | 0.6 in [1.5 cm]                                                                                                                                                                                         |
|                                     | Weight of Product     | 3.7 oz [104.0 g]                                                                                                                                                                                        |

## Packaging Information

|                           |                  |
|---------------------------|------------------|
| Package Length            | 8.5 in [21.7 cm] |
| Package Width             | 5.7 in [14.6 cm] |
| Package Height            | 1.4 in [3.6 cm]  |
| Shipping (Package) Weight | 5.9 oz [166.0 g] |

## What's in the Box

|                     |                       |
|---------------------|-----------------------|
| Included in Package | 1 - Network Card      |
|                     | 1 - Quick-Start Guide |

## Warranty Information

|          |         |
|----------|---------|
| Warranty | 2 Years |
|----------|---------|

***\*Product appearance and specifications are subject to change without notice.***