

4-Port RJ45 Gigabit OCP 3.0 Server Network Card w/Intel® i350-AM4, SFF 4C+ Compatible, Multi-Speed Ethernet, PCIe 3.0, LAN Transformer, NIC w/PXE/9K

**Product ID:** OR41GI-NETWORK-CARD



This 4-port RJ45 1Gbps OCP 3.0 Network Interface Card (NIC) features an Intel i350-AM4 Ethernet Controller, enhancing performance and data integrity. The Ethernet card adheres to OCP 3.0 standards and ensures broad compatibility, making it an ideal solution for reliable network connectivity and robust data transfer capabilities.

Leverage existing Cat5e/Cat6 cabling (or better) up to 100m to maximize existing networks and equipment. The NIC supports variable speed options (10/100/1000 Mbps) with auto-negotiation and 9K jumbo frames to reduce packet overhead, reducing network slowdowns.

This network adapter leverages the OCP 3.0 standard, a server-specific innovation, that optimizes size and port density while enabling simplified installation, maintenance, and upgrades of Field Replaceable Units (FRUs) through hot swapping. It's designed for the SFF form factor, aligning with W1 4C+ standards. The network adapter is compatible with both TSFF and SFF systems expanding compatibility with different server types.

The Ethernet card supports Intel vPro for remote management and troubleshooting, PXE boot for expedited deployment or updates, and VLAN support for improved traffic management and reduced network congestion. The NIC is compatible with Windows Server, VMware, and Linux and supports Single Root I/O Virtualization (SR-IOV) to enhance virtual machines' performance with minimal overhead. LAN transformers are included to maintain signal quality and reduce EMI, ensuring reliable communication up to 100m even when using Cat5e.

## Certifications, Reports and Compatibility





## Applications

## Features

- **OCP 3.0 NETWORK CARD:** 1Gbps Network Interface Card w/4x RJ45 Ethernet Ports; Intel I350-AM4 Ethernet Controller; Leverage existing Cat5e/Cat6 cabling (or better) up to 100m; Adheres to PCI Express 3.0; EEE compatible; Ideal for various scenarios, from virtualization to cloud computing
- **OCP INTERFACE:** 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
- **COMPATIBILITY:** LAN adapter is SFF 4C+ compatible; Variable speed options (10/100/1000 Mbps) with auto-negotiation; Removable pull-tab bracket; NIC is compatible with Windows Server, VMware, and Linux; Supports Single Root I/O Virtualization (SR-IOV)
- **IT MANAGEABILITY:** Supports Intel vPro for remote management and troubleshooting; PXE boot enabled for faster deployment/updates; 9K jumbo frames for reduced packet overhead; Remotely boot a system using WoL; VLAN support for improved traffic management
- **BUILD QUALITY:** Gigabit PCIe card features a built-in heatsink to keep the network chip running cool, LED indicators for link status/speed, LAN transformers to maintain signal quality and reduced EMI for reliable communication up to 100m even with Cat5e

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## Hardware

|                    |                                                                                                                                                                                                                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warranty           | 2 Years                                                                                                                                                                                                                                                                                                                            |
| Interface          | RJ45 (Gigabit Ethernet)                                                                                                                                                                                                                                                                                                            |
| Bus Type           | OCP 3.0                                                                                                                                                                                                                                                                                                                            |
| Card Type          | OCP (Open Compute Project)                                                                                                                                                                                                                                                                                                         |
| Port Style         | Integrated on Card                                                                                                                                                                                                                                                                                                                 |
| Industry Standards | SFF-TA-1002 Compliant 4C+ Connector <br/>IEEE 802.3ab (1000BASE-T ) <br/>IEEE 802.3u (100BASE-TX ) <br/>IEEE 802.3i (10BASE-TX) <br/>IEEE 802.1Q (VLAN) <br/>IEEE 802.3x (Flow Control) <br/>IEEE 802.1p (QoS) <br/>IEEE 802.1AX (Link Aggregation)<br><br>IEEE 802.1X (WoL) <br/>IEEE P802.3az (EEE) <br/>PCI Express Version 3.0 |
| Chipset ID         | Intel - I350-AM4                                                                                                                                                                                                                                                                                                                   |

## Performance

|                            |                    |
|----------------------------|--------------------|
| Wake On Lan                | Yes                |
| Maximum Data Transfer Rate | 1Gbps              |
| Compatible Networks        | 1000 Mbps (1 Gbps) |
| Auto MDIX                  | Yes                |
| PXE                        | Yes                |
| Full Duplex Support        | Yes                |
| Jumbo Frame Support        | 9K max.            |
| Promiscuous Mode           | Yes                |
| General Specifications     | SR-IOV Support     |

## Connector(s)

|                   |                   |
|-------------------|-------------------|
| Connector Type(s) | 1 - SFF-TA-1002   |
| External Ports    | 4 - RJ-45         |
| Host Connectors   | 1 - 4C+ (168-Pin) |

## Software

|                  |                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------|
| OS Compatibility | Windows Server 2012, 2012 R2, 2016, 2019, 2022, 11, 10<br>VMware ESXi 7.x<br>Linux 2.4.x and up - LTS Versions only |
|------------------|---------------------------------------------------------------------------------------------------------------------|

## Special Notes / Requirements

|      |                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|

## Indicators

|                |                                                                                                                                                                                               |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LED Indicators | 1 - Left LED Indicator is Link Speed<br>Solid Green: 1 Gbps<br>Solid Amber: 10/100 Mbps<br><br>1 - Right LED Indicator is Link Status<br>Solid Green: Active Link<br>Flashing Green: Activity |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Power

|                              |                                |
|------------------------------|--------------------------------|
| Power Source                 | Bus Powered                    |
| Power Consumption (In Watts) | Average: 4.65W , Maximum: 5.2W |

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#### Environmental

|                       |                        |
|-----------------------|------------------------|
| Operating Temperature | 5C - 50C (41F - 122F)  |
| Storage Temperature   | 40C - 70C (40F - 158F) |
| Humidity              | 5% - 90% RH            |

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#### Physical Characteristics

|                   |                  |
|-------------------|------------------|
| Color             | Silver & Green   |
| Product Length    | 3.3 in [8.5 cm]  |
| Product Width     | 5.2 in [13.2 cm] |
| Product Height    | 0.6 in [1.5 cm]  |
| Weight of Product | 3.5 oz [100.0 g] |

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#### Packaging Information

|                           |                  |
|---------------------------|------------------|
| Package Length            | 5.8 in [14.7 cm] |
| Package Width             | 8.5 in [21.6 cm] |
| Package Height            | 1.4 in [3.6 cm]  |
| Shipping (Package) Weight | 5.9 oz [168.0 g] |

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#### What's in the Box

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

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#### Warranty Information

|          |         |
|----------|---------|
| Warranty | 2 Years |
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*\*Product appearance and specifications are subject to change without notice.*