

# PI50R21

*PCIe to 2 Port RJ45 10G Ethernet Network Card*



## • Feature

- Network Speeds : Supports 100M, 1G, 2.5G, 5G, and 10G network speeds.
- Interface Protocol : PCI Express\* (PCIe\*) V3.0, offering a data transfer rate of up to 8.0 GT/s.
- Network Virtualization : Supports stateless offloading, including VXLAN and NVGRE.
- Traffic Control : The Intel® X550 Ethernet Flow Director can control application traffic based on hardware.
- Port Partitioning : Utilizes flexible I/O virtualization technology to ensure Quality of Service (QoS) for up to 128 virtual ports.
- Controller : Based on Intel X550.
- Brace Height : Available in full - height and low - profile configurations.
- Thermal Design Power :
- Typical Power: 11.2W.
- Maximum Power: 13.0W.
- Ports : 2 x 10G RJ - 45 interfaces.
- System Interface Type : PCIe v3.0 (8.0GT/s) (compatible with 2.0 and 1.1).
- Speed and Slot Width : 8 GT/s, x4 Lane.

## CONTACT US

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- Bus Bandwidth : 4 - lane PCI Express, usable in x8 and x16 slots.
- Per - Port Rate Support : 100MbE/1GbE/10GbE; 100MbE/2.5GbE/5GbE/10GbE (under Linux).
- Functional Features
- LED Indicators :
  - Link (green/orange steady) and ACTIVITY (green, blinking).
  - Link Speed (green = 10Gbps; orange = 1Gbps/100Mbps).
  - 10Gbps: Green + Green.
  - 100Mbps/1Gbps/2.5Gbps/5Gbps: Green + Orange.
- On - Chip QoS and Traffic Management : Yes.
- Virtual Machine Device Queue (VMDq) : Supported.
- PCI - SIG SR - IOV\* : Supported.
- 64 VFs per Port : Supported.
- Data Center Bridging (802.1Qaz, 802.1Qbb, 802.1p) : Supported.
- NVGRE and VXLAN Offloading : Supported.
- Intel® Flow Director : Supported.
- MSI - X : Supported.
- FPP - 64 VFs per Port : Supported.
- Tx/Rx IP, SCTP, TCP, & UDP Checksum Offloading (IPv4, IPv6) Functions : Supported.
- Tx TCP Segmentation Offload : Supported.
- SNMP and RMON : Supported.
- Support for IEEE 802.1Q VLANs\* : Supported.
- Support for IEEE 802.3 2005 Flow Control Support\* : Supported.
- Compatibility with 10 GbE and 1 GbE Ethernet/802.3ap (KX/KX4) Specification :
- Compatibility with the 10 GbE 802.3ap (KR) Specification : Compatible.
- Compatibility with 1000BASE - BX Specification : Compatible.
- PXE Support : Supported.
- WoL Support : Supported.
- Jumbo Frame Support : Supported, up to 15.5 KB.
- Ethernet Power Management Support : Supported.
- Ethernet Storage Support : Supported, including NFS, FCoE, SMB.
- Operating Temperature : 0°C to 55°C (32°F to 131°F).
- Storage Temperature : - 40°C to 70°C (- 40°F to 158°F).
- Storage Humidity : 90% non - condensing relative humidity at 35°C.

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## • Specification

<b>Bus Type</b>	PCI Express 3.0 x4
<b>Chipset ID</b>	Intel x550
<b>Number of Ports</b>	2Port
<b>Transfer Rate</b>	10Gbps
<b>OS Compatibility</b>	<ul style="list-style-type: none"><li>• Windows Server 2022/2019/2016/2012/2008</li><li>• Linux* Stable Kernel version 2.6.32/3x or later;</li><li>• Linux* RHEL 6.5 and RHEL 7.0 or later;</li><li>• Linux* SLES 11 SP3 and SLES 12 or later;</li><li>• FreeBSD* 9 and FreeBSD* 10 or later;</li><li>• UEFI* 2.1; UEFI* 2.3 or later;</li><li>• VMware ESX/ESXi 5.x/6.x or later</li></ul>

## • Accessories

- 1 x PCIe to 2 Ports 10G Ethernet network adapter
- 1 x Low-profile bracket

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