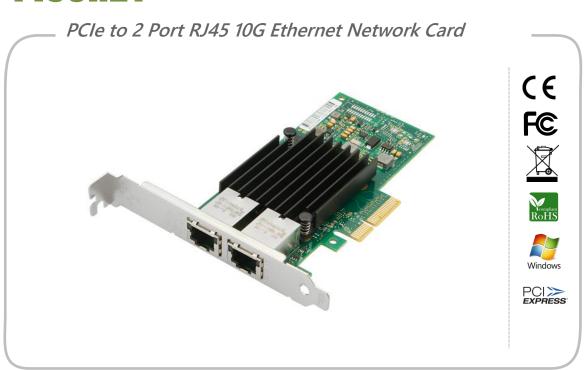


# **PI50R21**



### 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



- 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℃.

#### **CONTACT US**



## Specification

| Bus Type         | PCI Express 3.0 x4                               |
|------------------|--|
| Chipset ID       | Intel x550                                       |
| Number of Ports  | 2Port  |
| Transfer Rate    | 10Gbps   |
| OS Compatibility | • Windows Server 2022/2019/2016/2012/2008        |
|                  | Linux* Stable Kernel version 2.6.32/3x or later; |
|                  | Linux* RHEL 6.5 and RHEL 7.0 or later;           |
|                  | Linux* SLES 11 SP3 and SLES 12 or later;         |
|                  | FreeBSD* 9 and FreeBSD* 10 or later;             |
|                  | UEFI* 2.1; UEFI* 2.3 or later;                   |
|                  | VMware ESX/ESXi 5.x/6.x or later                 |

### Accessories

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