

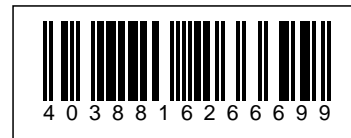


Part No.: 266697  
Vendor Part No.: ALL0146-1-10G-TX

## ALLNET PCIe 10G X4 Single Port Network Card Copper RJ45 • Intel x550-T1 • ALL0146-1-10G-TX

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### EAN CODE



### Highlights:

- PCI Express\* (PCIe\*) v 3.0 with up to 8.0 GT/s.
- Low cost, low power, 10 GbE performance for the entire datacenter.
- Intel second generation, single- and dual-port 10GBASE-T controller with integrated MAC and PHY.
- Standard CAT 6a cabling with RJ45 connectors.
- Supports NBASE-T\* technology (2.5 and 5.0 GbE over CAT 5e)
- Backward compatibility with existing 1000BASE-T networks simplifies the transition to 10 GbE.
- Unified networking delivering LAN, iSCSI and FCoE in one low-cost CNA.
- Flexible I/O virtualization for port partitioning and Quality of Service (QoS) of up to 64 virtual ports.
- Reliable, proven 10 GbE technology from Intel Corporation.
- Universal Card 100/1000/2500/5000/10000Mbit by PCI-E

The X550 is a low-cost option for deploying 10GbE in your data center because it uses CAT6 and CAT6A cabling - standard cabling for many data centers. Autonegotiation between 1GbE, 2.5GbE, 5GbE, and 10GbE provides the necessary backwards compatibility required for a smooth transition and easy migration to 10GbE. Copper cabling's flexible reach from 1 meter to 100 meters also supports Top of Rack (ToR), Middle of Row (MoR), and End of Row (EoR) network architectures.

### Specification

- PCI-Express host interface specification v3.0
- Complies with PCI Bus Power Management Interface Specification Rev1.2
- PCI-Express lanes: x4



- Complies with Single port 10GbE RJ45 copper port
- Operate Speeds: 10Gb/s, 5Gb/s, 2.5Gb/s, 1Gb/s, 100Mb/s
- 10GBASE-T as per the IEEE 802.3an standard
- 1000BASE-T and 100BASE-TX as per the IEEE Standard 802.3-2012
- NBASE-T as per the IEEE P802.3bz/D1.1 Draft Standard for Ethernet Amendment
- Half duplex at 10/100Mbps operation and full duplex operation at all supported speeds
- Layer 2 functions: IEEE 802.3x Flow Control - IEEE 802.1q VLAN
- Supports Receive-side scaling (RSS)
- Supports IPv 4, IPv 6 protocols
- Supports Jumbo Frames up to 15.5K
- Supports UDP.TCP and IP Checksum offloading
- 128 transmit queues
- Statistics for management and RMON
- Support for 64 virtual machines per port (64VMs x2 queues)
- Support for Data Center Bridging(DCB) (802.1Qaz, 802.1Qbb, 802.1p)
- Interrupt throttling control to limit maximum interrupt rate and improve CPU usage

## Technical Details:

Essentials	
Product Collection	Intel X550-T1 10GbE Network Adapter
Controller Processors	Intel ELX550-AT1
Bus Type / Bus Width	PCIe 3.0 (8 GT/s), x4 lane PCIe, operable in x8 and x16 slots
Connections	1 x RJ45 Copper
Data Rate Supported	10GbE / 5GbE / 2.5GbE / 1GbE / 100Mb
Cable Distances	10GBASE-T: 100 m using CAT6A, 55 m using CAT6 1000BASE-T: 100 m using CAT5e, CAT6 or CAT6A
Bracket	Full-height bracket installed. Low-profile bracket included in package.



Dimension	129 mm x 68 mm (PCIe Board)
<b>Technical Specifications</b>	
Network Standards	10GBASE-T according to IEEE 802.3an 1000BASE-T and 100BASE-TX according to IEEE 802.3-2012 NBASE-T according to IEEE P802.3bz/D1.1 Draft Standard Half duplex at 10/100 Mbps, full duplex at all supported speeds
Interrupt Levels	INTA, MSI, MSI-X
Manageability	Wired for Management (WfM) Baseline v2.0 for Servers DMI 2.0, Windows Management Instrumentation (WMI), SNMP Remote Installation Services (RIS) PXE 2.0 Boot ROM Support
Virtualization Technology	Multi-mode I/O Virtualization VxLAN Stateless Offloads NVGRE Stateless Offloads Virtual Machine Device Queues (VMDq)
<b>System Requirements</b>	
Windows Client	Windows 11 / 10 / 8.1 / 8 / 7
Windows Server	Windows Server 2008 R2 / 2012 / 2012 R2 / 2016 / 2019 / 2022
Linux	RHEL 7.9 / 8.4 / 8.5 SLES 12 SP5 / SLES 15 SP3 Ubuntu 18.04 LTS / 20.04 LTS FreeBSD 12.2 / 13
<b>Environment &amp; Certification</b>	
Power Consumption	Maximum 13 W
Storage Humidity	90% non-condensing relative humidity at 35 °C
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Operating Temperature	0 °C to 55 °C (32 °F to 131 °F)
LED Indicators	LINK (solid), ACTIVITY (blinking) LINK SPEED: Green = 10 Gbps Yellow = 1 Gbps Off = 100 Mbps
Certifications	CE FCC RoHS