

RP-4010EXA

10GBase-T/NBASE-T PCIe Network Adapter

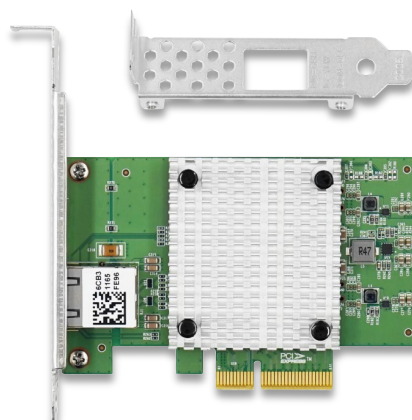
The RP-4010EXA is a cutting-edge Multi-Gigabit 10GBase-T/NBASE-T Network Adapter offering exceptional connectivity with auto-negotiation for 10G/5G/2.5G/1G/100M speeds. It operates over Cat5e/Cat6 or better cables, providing a flexible solution with a PCI Express v3.0 x4 interface, and compatibility with PCIe x8 and x16 channels.

The adapter integrates a PHY capable of 10 Gbps speeds over Cat 6a cables up to 100 meters, and 5 Gbps over Cat 5e or Cat 6. It is IEEE 802.3an & IEEE 802.3bz compliant, enabling multiple transmission rates, including 2.5GBASE-T, 5GBASE-T, and 10GBASE-T, over 100 meters of twisted pair cabling for versatile networking.

Designed for high performance and low CPU utilization, the RP-4010EXA features MSI, MSI-X, LSO, RSS, and IPv4/IPv6 checksum offload capabilities. Its small form factor and universal PCIe interface ensure seamless integration across various systems, making it an ideal choice for enhancing network connectivity and boosting performance.

Features

- Supports 10G/5G/2.5G/1G/100M speeds with auto-negotiation.
- PCI Express v3.0 x4, compatible with x8 and x16 channels.
- Delivers 10 Gbps speeds over Cat 6a cables up to 100 meters.
- Complies with IEEE 802.3an & IEEE 802.3bz standards.
- Low Profile Design: Small form factor suitable for various system configurations.
- Supports MSI, MSI-X, LSO, RSS, and IPv4/IPv6 checksum offload.
- Low-power operation with minimal CPU utilization.
- Seamlessly integrates into systems with PCIe x4, x8, or x16 slots.



Specifications

Protocol Support	<ul style="list-style-type: none"> • IEEE802.3at -2009 PoE standard • IEEE802.3af -2003 PoE standard • IEEE 802.3ab 1000BASE-T Gigabit Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3z • IEEE 802.1Q VLANs • IEEE 802.3x • IEEE 1588 • IEEE 802.3az - Energy Efficient Ethernet (EEE)
Controller	<ul style="list-style-type: none"> • Aquantia AQtion AQC107
Transmission medium	<ul style="list-style-type: none"> • Copper
Copper Type	<ul style="list-style-type: none"> • 10GBase-T, Cat 6 or higher up to 100m • 5GBase-T, Cat 5e or higher up to 100m • 2.5GBase-T, Cat 5e or higher up to 100m • 1GBase-T, Cat 5e or higher up to 100m • 100MBase-T, Cat 5 or higher up to 100m
Bracket	<ul style="list-style-type: none"> • Low Profile & Full Height
Power Consumption	<ul style="list-style-type: none"> • 4.7W
OS Support	<ul style="list-style-type: none"> • Windows 7 \8 \8.1 \10 \11 • Windows Server 2012 R2 \2016 R2 \2019 R2 \2022 R2 • RHEL/Centos 7.6 \7.9 \8.2 \8.3 • Deepin 15.11 \20 \20.6 • Ubuntu 18.04.5 \16.04.3 \20.04.3 • ZTE New Fulcrum 3.2.2 \5.0.5 • Asianux Server v7.0 • Galaxy Unicorn v10 SP1 • Neokylin 7.6 • Zhongke Fangde desktop operating system 4.0 • Zhongke Fangde server operating system • Tongxin UOS 20 • Emind OS • VMware ESXI 6.7 \7.0 • iKuai route
Bus Type	<ul style="list-style-type: none"> • PCIe v3.0 x4, compatible with x8 , x16
Data rate per port	<ul style="list-style-type: none"> • 100/1000/2500/5000/10000Mbps
Connector	<ul style="list-style-type: none"> • 1 x 10G RJ45
PXE	<ul style="list-style-type: none"> • Yes
WoL	<ul style="list-style-type: none"> • Yes
DPDK	<ul style="list-style-type: none"> • Yes

PCI-SIG/SR-IOV	<ul style="list-style-type: none"> No
iSCSI	<ul style="list-style-type: none"> No
Jumbo Frames	<ul style="list-style-type: none"> support up to 16 KB
FCoE	<ul style="list-style-type: none"> No
LED indication	<ul style="list-style-type: none"> 100M/1G/2.5G/5G (Orange) 10G (Green)
Environment	<ul style="list-style-type: none"> Operating Temperature: 0 °C to 55 °C Storage Temperature: -40 °C to 85 °C Storage Humidity: 90% non-condensing
Dimension	<ul style="list-style-type: none"> 105.09 x 68.08 x 1.6 mm
Certification	<ul style="list-style-type: none"> FCC, CE

Ordering Information

RP-4010EXA 10GBase-T/NBASE-T PCIe Network Adapter