

## LRES3004PT

—PCIe x4 Quad Ports Gigabit Copper Ethernet Server Adapter (Based on Intel I210)

### Overview



LRES3004PT is PCI Express x4 Quad-ports Gigabit Ethernet network adapter developed by Shenzhen Lianrui Electronics Co., Ltd. based on Intel I210 control solution. It can also be used on PCIe x8 and x16 channels. The use of miniaturized design does not reduce the performance indicators of the network card.

Ethernet power management technologies such as energy-efficient Ethernet and DMA merging are used, with four transmit queues, four receive queues, and error correction memory protection to improve data transmission reliability by combining parallel and pipeline logic architectures. Together, effectively managing packets with delays.

High-performance network data transmission on the machine bus architecture, compatible with Ethernet and Fast Ethernet, which greatly reduces customer deployment and training costs, allowing users to quickly and easily migrate their networks to Gigabit Ethernet 10/100/1000Mbps. The link rate is adaptive to the links on the network. At the highest Gigabit Ethernet connection, four ports can be simultaneously operated in full-duplex mode to accommodate high-performance network communication, which can extend bandwidth and save PCI Express channel resources through link aggregation.

### Key Features

- Low cost, low power, energy-efficient Ethernet and DMA merging.
- Quad-port 1GBASE-T controller with integrated MAC and PHY
- Four transmit queues and four receive queues per port.
- 10/100/1000Mbps networks transition.
- PCI Express (Pcie) v 2.1.

## Specifications

Controller	Intel I210
Baffle Height	Full height
Power Consumption	6.2W
System Support	Windows 7/8/8.1/10
	Windows Server 2008 R2/2012 R2/2016 R2/2019 /2019 R2;
	Linux Stable Kernel version 2.6.32/3.x/4.x or later;
	Linux CentOS/RHEL 6.5 / 7.x or later;
	Ubuntu 14.x/15.x/16.x or later;
	VMware ESX/ESXi 4.x/5.x/6.x or later
Bus Type	PCIe v2.1 x4, compatible with x8、x16
Data rate supported per port	10/100/1000MbE
Connector	4*8-Pin RJ45

## Technical Features

Protocol Support	IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3z IEEE 802.3 IEEE 802.1Q VLANs IEEE 802.3x IEEE 802.3az - Energy Efficient Ethernet (EEE)
iSCSI	No
WoL	Yes (4 ports supports)
Jumbo Frames	YES
DPDK	Yes
PXE	NO
FCoE	No

## Environment Features

Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-55 °C to +105 °C (-67 °F to +221 °F)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 °C

## Physical Features

Size(mm)	147*120*21
Weight(g)	109

## LED Indicators

LED Indicators	1000Mbps:Yellow Link + Green Blink
	10Mbps/100Mbps: Green Blink

## Order Information

P/N	Description
LRES3004PT	PCIe x4 Quad Ports Gigabit Copper Ethernet Server Adapter (Intel I210 Based)

PS: Above details are only for reference, if there is any change, no prior notice.

## Companion Products

### Fiber NIC

- § LR-LINK PCI 100FX Desktop Adapter
- § LR-LINK PCIe 100FX Desktop Adapter
- § LR-LINK PCI 1000BASE-SX/LX Desktop Adapter
- § LR-LINK PCIe 1000BASE-SX/LX Desktop Adapter
- § LR-LINK PCIe 1000BASE-SX/LX Server Adapter
- § LR-LINK PCIe 10GBASE-SX/LX Server Adapter
- § LR-LINK PCIe 25GBASE-SX/LX Server Adapter
- § LR-LINK PCIe 40GBASE-SX/LX Server Adapter
- § LR-LINK PCIe 100GBASE-SX/LX Server Adapter

### Copper NIC

- § LR-LINK PCI 10/100Mbps Desktop Adapter
- § LR-LINK PCIe 10/100Mbps Desktop Adapter
- § LR-LINK PCI 10/100/1000Mbps Desktop Adapter
- § LR-LINK PCIe 10/100/1000Mbps Desktop Adapter
- § LR-LINK PCIe 10/100/1000Mbps Server Adapter
- § LR-LINK PCIe 100/1G/10Gbps Server Adapter
- § LR-LINK PCIe 1G/2.5G/5G/10Gbps Server Adapter

## Download Drivers

To get the drivers, please visit us at <http://www.lr-link.com/support/driver.html>.

## Product Quick Guide

To know the network card basic knowledge to choose the suitable NIC you need, please visit us at: <http://www.lr-link.com/productchoose.html>.

## Customer Support

LR-LINK customer Support Services offers a broad selection of programs including phone support and warranty service. For more information, contact us at Service and availability. <http://www.lr-link.com/contactus.html>

## Shenzhen Lianrui Electronics Co.,LTD.

Shenzhen Lianrui Electronics Co.,Ltd is an efficient Ethernet adapter design company with independent research and development, using Intel, Net-swift, Tehuite, Broadcom, Realtek and other manufacturers Ethernet controller, developed by our company's independent R & D design team, manufactured by our company workshop, and then sell.

## Declaration

Our products specifications come from modifying the chip manufacturer's specifications released. Product features, technical parameters, technology right, intellectual property rights and brand names etc. mentioned in specifications are just referenced only. There is no infringement meaning. If there is any important and sensitive content related, please contact our Lianrui company, we'll delete them, Thank you.

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