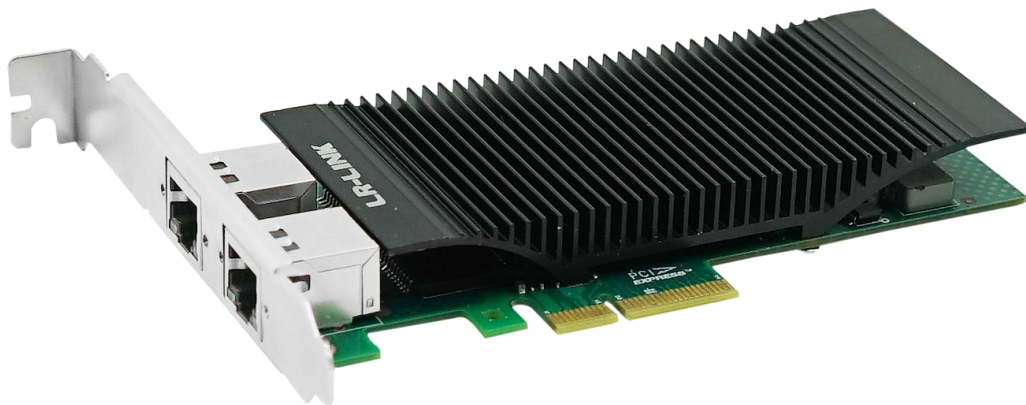


## LRES2003PT

—PCIe x4 Dual Port Copper Gigabit Ethernet Network Adapter (Intel I350 Based)

### Overview



LRES2003PT is a dual-port copper Gigabit Ethernet PCI Express x4 interface server adapter card independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel I350 main control solution. The adapter is also compatible with PCIe x8, x16 channels. This server adapter card design is mainly used on industrial field servers and workstations. It can also be used on conventional servers. LR-LINK has carefully selected component layout and layout when designing this industrial grade series. The entire range of products has better stability and good quality in actual use:

The adapter can be bundled into two groups or bundled with other adapters to achieve fault tolerance and redundancy to extend the network bandwidth of the actual application. At the same time, it can automatically detect and implement communication from the faulty port to the same group in real time. Other members continue to operate to achieve uninterrupted network communication. The adapter's main control also has integrated hardware acceleration to perform TCP/UDP/IP checksum offloading and TCP segmentation tasks. The host processing technology can offload the accelerator, and the host processing technology can offload the accelerator and release the CPU resources to free up more CPU resources to process other applications. This adapter is the ideal solution for deploying multiple networks of industrial automation and deploying network applications on high-performance industrial servers.

The wider RJ45 pitch is designed for industrial-grade cable access, which provides a more stable connection between the cable and the network port. It can effectively solve the problem of unstable connection between the network port and the cable in industrial sites, and is compatible with common lines. Cable interface access. The larger heat sink can effectively solve the heat dissipation problem of the adapter under the internal closed machine, which can effectively ensure the stable operation of the adapter card for a long time.

## Key Features

- 1. The adapter card adopts a wider RJ45 pitch design;
- 2. The interface specially designed for industrial cable access, with LR-LINK customized industrial network cable, can lock the cable and network port more firmly, effectively solve the problem of unstable connection between network port and cable in industrial places. It is also compatible with common cable access.
- 3. The larger heat sink can effectively solve the heat dissipation problem of the adapter in the case of poor heat dissipation environment, and effectively ensure the stable operation of the adapter card for a long time.
- 4. Carefully selected the RJ45 connector with thickened immersion gold to ensure a more secure and reliable connection;
- 5. 2\*RJ45 connector design can save the motherboard's valuable PCIe slot resources.

## Specifications

Controller	Intel I350
Baffle Height	Half & Full height
Power Consumption	3.2W
System Support	Windows XP/Vista7/8/8.1/10
	Windows Server 2003 R2/2008 R2/2012 R2/2016 R2/2019 R2;
	Linux Stable Kernel version 2.6.32.x/3.x/4.x or later;
	Linux CentOS/RHEL 6.x / 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 v2.0 x4, compatible with x8、x16
Data rate supported per port	10/100/1000MbE
Connector	2*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 802.1Q VLANs IEEE 802.3x IEEE 1588 IEEE 802.3az - Energy Efficient Ethernet (EEE)
iSCSI	No
WoL	No
Jumbo Frames	YES
DPDK	Yes
PXE	Yes
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)	160*120*21
Weight(g)	*

## LED Indicators

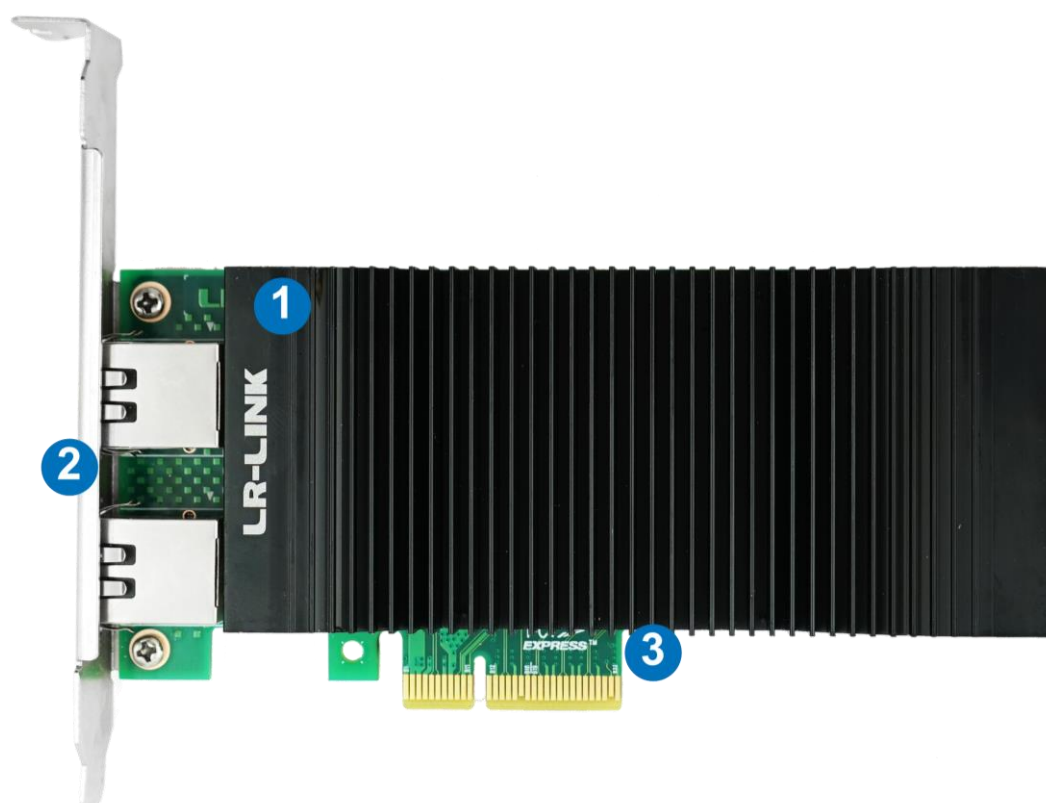
LED Indicators	1000Mbps:Yellow Link + Green Blink
	10Mbps/100Mbps: Green Blink

## Order Information

P/N	Description
LRES2003PT	PCIe x4 Dual Port Copper Gigabit Ethernet Network Adapter (Intel I350 Based)

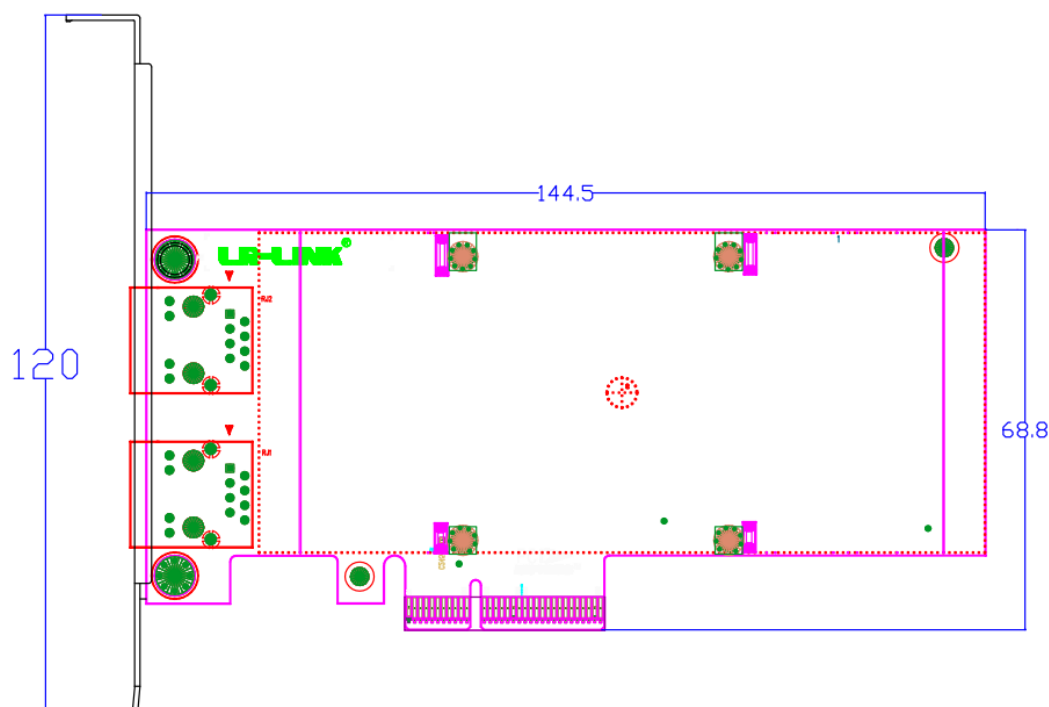
PS: Above details are only for reference, if there is any change,no prior notice.

## Product Structure



1. Heat sink
2. 2\*1G RJ45 Connector
3. PCIe x4 Bus

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## 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, intellectualproperty 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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