LRES2006PT

—PCIe x4 Six-port Copper Gigabit Ethernet Netwok Adapter (Intel I350 Based)

LR-LINK
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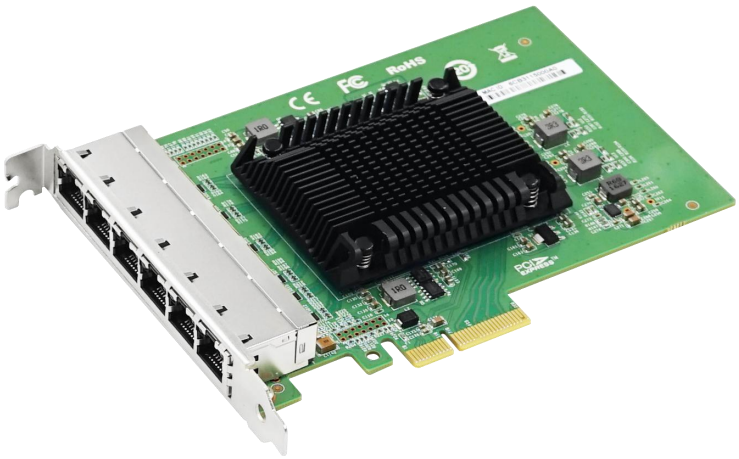
Overview



LRES2006PT is a PCI Express 2.1 x4 six-port gigabit ethernet network adapter independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel I350 chip. It is also compatible with PCIe x8 and x16. The adapter design is mainly applied to servers and high-end devices. The adapter is optimized and its performance is improved, so that system I/O is no longer the bottleneck of high-end network applications. The adapter can be bundled into multiple groups at the same time to achieve fault tolerance and redundancy to expand network bandwidth and ensure network performance. It can automatically detect and implement communication from the faulty port to other members in the same group to continue operation. To achieve uninterrupted high performance communication.

The adapter has integrated hardware acceleration and is capable of performing 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 and deploying critical network applications and environments on high-performance servers.

Developed on the Intel I350 ethernet MAC+PHY controller, the LRES2006PT allows up to six ports at full time in a gigabit ethernet connection. The working mode works to adapt to high-performance network communication, and can extend the bandwidth through link aggregation and save PCI Express channel resources without occupying bus bandwidth. The LRES2006PT supports both PCI*SIG SR-IOV (Single Root I/O Virtual and Sharing Specification). 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.

Sales：service@lr-link.com
Support: support@lr-link.com

Key Features

1. 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.
2. carefully selected thickened gold RJ45 connector to ensure a more secure and reliable connectivity;
3. 6*8-pin RJ45 connectors are designed to save the motherboard's valuable PCIe slot resources.

Specifications

Controller	Intel I350
Cable medium	Copper
Cable Type	Cat 5E & Cat6 or higher, 1000Base-T up to 100m
	Cat 5 & Cat5E or higher, 100Base-T up to 100m
	Cat 3,4,5 & Cat5E or higher, 10Base-T up to 100m
Bracket Height	Full Height & Low Profile
Power Consumption (MIN)	6.792W
Power Consumption (MAX)	9.996W
System Support	Windows7 /8 /8.1 /10 /11
	Windows Server 2008 R2 /2012 R2 /2016 R2
	Windows Server 2019 R2 /2022 R2
	RHEL/Centos 7.3 /7.6 /7.9 /8.2 /8.3
	Deepin 15.11 /20 /20.6
	Ubuntu 16.04.3 /18.04.5 /20.04.1
	SUSE 12.5
	FreeBSD 12.2
	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 6.5 /6.7 /7.0
	iKuai router
	openKylin 0.7.5
Bus Type	PCIe v2.1 x4 , compatible with x8 , x16
Data Rate	10/100/1000Mbps
Connector	6*1G RJ45

Technical Features

Standards Compliant	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)
PXE	Yes
DPDK	Yes
WOL	Yes
iSCSI	No
Jumbo frame	Yes
FCoE	No

Environment Features

Operating Temperature	0 ℃ to 55 ℃ (32 ℉ to 131 ℉)
Storage Temperature	-40 ℃ to 85 ℃ (-40 ℉ to 185 ℉)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 ℃

Physical Features

PCB Size(mm)	151.6*107.7*1.6
Package Size(mm)	250*170*32
Weight(g)	*

LED Indicators

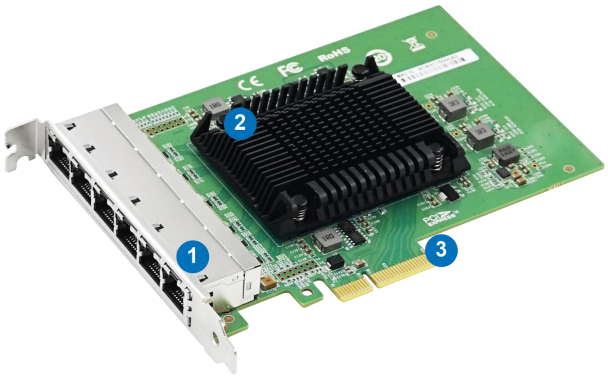
Status indication	1000Mbps, Orange bright + Green flashing
	10/100Mbps, Green flashing 10Mbps, No

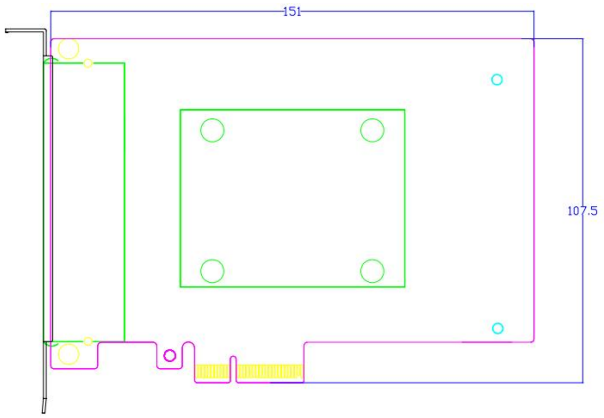
Order Information

P/N	Description
LRES2006PT	PCIe x4 Six-port Copper Gigabit Ethernet Netwok Adapter

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

Product Structure





1. Heat sink
2. 4*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 Electronic 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,manufacturedby 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 andsensitive content related, please contact our Lianrui company, we'll delete them, Thank you.

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