

LRES2037PT

— PCIe x4 Quad-port Gigabit Copper Ethernet Network Adapter (Intel I211 Based)

Overview



LRES2037PT is a PCIe x4 quad-port copper gigabit ethernet network adapter developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel chip. The adapter can be used on PCIe x8 and x16. It is widely used in data transmission such as industrial manufacturing and machine processing.

It adopts ethernet power management technologies such as energy-saving ethernet and DMA merger, and has 4 sending queues and 4 receiving queues, error correction memory protection and other technologies to improve the reliability of data transmission, by combining parallel and pipeline logic architectures Together, to effectively manage delayed packets.

High-performance network data transmission is realized on the machine bus architecture, and it is compatible with ethernet and fast ethernet, which greatly reduces the cost of customer deployment and training. Users can easily and quickly migrate the network to gigabit ethernet 10/100/1000Mbps The link rate is adaptive to the link on the network. When the gigabit ethernet connection is the highest, it can allow quad ports to work in full-duplex mode at the same time to adapt to high-performance network communication.

Key Features

1. A PCIe x4 four-port copper gigabit ethernet network adapter, which can be used on PCIe x8 and x16;
2. The product can be widely used in data transmission such as industrial manufacturing and machine processing;
3. Realize high-performance network data transmission on the machine bus architecture, and it is compatible with Ethernet and fast ethernet, which greatly reduces the cost of customer deployment and training;
4. When the gigabit ethernet connection is the highest, it can allow four ports to work in full duplex mode at the same time to adapt to high-performance network communication.

Specifications

Controller	Intel I211
Cable medium	Copper
Cable Type	1GBase-T, Cat 5e or higher up to 100m
	100MBase-T, Cat 5 or higher up to 100m
	10MBase-T, Cat 3/4/5/5E/6 or higher up to 100m
Baffle Configuration	Full height & half height
Power Consumption	5.0W
System Support	Windows 7/8/8.1/10/11
	Windows Server 2008 R2/ 2012 R2/ 2016 R2/2019 R2/2022 R2
	Linux Stable Kernel version 2.6.x/3.x/4.x or later;
	Linux CentOS/RHEL 6.5 / 7.x or later
	Ubuntu 14.x/15.x/16.x or later
	FreeBSD 9 / 10 / 11 or later
	VMware ESX/ESXi 2.6.x/3.x/4.x/5.x or later
Bus Type	PCIe v2.1 x4 , compatible with x8 , x16
Data Rate	10/100/1000Mbps
Connector	4*1G RJ45

Technical Features

Standards Compliant	IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet
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	IEEE 802.3z IEEE 802.1Q VLANs IEEE 802.3x IEEE 1588 IEEE 802.3az – Energy Efficient Ethernet (EEE)
PXE	Yes
iSCSI	No
DPDK	Yes
WoL	No
Jumbo frame	Yes
PCI-SIG* SR-IOV	Yes

Environment Features

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

Physical Features

PCB Size(mm)	152.4*68.8*1.6
Weight(g)	*

LED Indicators

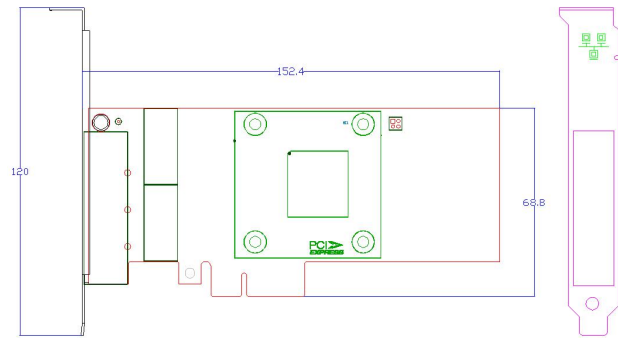
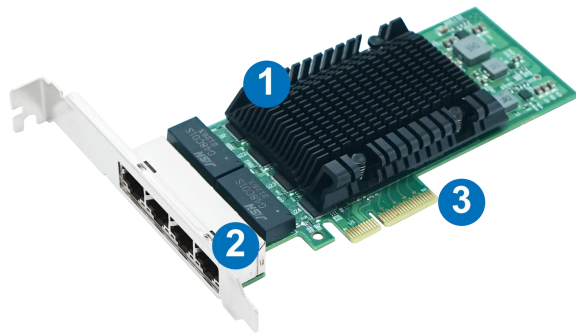
Status indication	1000Mbps, Orange bright + Green flashing
	100Mbps, Green bright + Green flashing
	10Mbps, Green flashing

Order Information

P/N	Description
LRES2037PT	PCIe x4 Quad-port Gigabit Copper Ethernet Network 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, 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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