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LRES4004PT-POE

—PCIe x1 Dual-port Gigabit SFP / POE Hybrid Ethernet Network Adapter (Intel I350 Based)

Overview

LRES4004TF-POE is a PCI Express x1 dual port photoelectric hybrid PoE+ gigabit ethernet image acquisition card independently developed by Shenzhen Lianrui Electronics Co., Ltd. on the basis of Intel chip. It is compatible with the PCIe X8 and x16. The design of adapter is mainly used in industrial field visual inspection server and equipment, visual field client, fast mobile Ethernet data transmission equipment and other occasions that need optical fiber transmission at the same time, and it is also suitable for ordinary servers. At the same time, lres4004tf-poe allows personal computers to power VOIP phones or any other traditional copper powered device over the network.

The adapter has integrated hardware acceleration function, and can perform TCP / UDP / IP verification and load sharing and TCP segmentation tasks. The host processing technology can load the accelerator, and the host processing technology can split the accelerator to release the occupation of CPU resources, so as to free up more CPU resources to process other applications. The adapter card is an ideal solution for deploying multiple networks and deploying critical network applications and environments on high-performance servers.

LRES4004TF-POE is developed on the basis of Intel dual port Ethernet MAC + PHY controller. Gigabit PoE working channel and Gigabit fiber working channel are independent of each other, and can be used flexibly with different fiber modules in different requirements. At the same time, it can also expand the bandwidth through link aggregation, which can save PCI express channel resources without occupying bus bandwidth.

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Key Features

1. A PCI Express x1 dual port photoelectric hybrid PoE+ gigabit ethernet image acquisition card;
2. The design of the server adapter card is mainly used in industrial field visual inspection server and equipment, visual field client, fast mobile Ethernet data transmission equipment and other occasions that need optical fiber transmission at the same time, and it is also suitable for ordinary servers.
3. It allows PCs to power VOIP phones or any other traditional copper powered device over the network.
4. Gigabit PoE working channel and Gigabit fiber working channel are independent of each other.

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
Baffle Configuration	Half height & full height
Power Consumption	3.2W
PoE power	30W
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 x1 , compatible with x8 , x16
Data Rate	10/100/1000Mbps + 1000MbE
Connector	1*8-Pin RJ45 + 1*SFP

Technical Features

Standards Compliant	IEEE802.3af -2003 PoE standard IEEE802.3at -2009 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)
PXE	Yes
FCoE	No
DPDK	Yes
WoL	No
Jumbo frame	Yes
PCI-SIG* SR-IOV	Yes
VMDq	Yes

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)	160.4*68.1*1.6
Weight(g)	*

LED Indicators

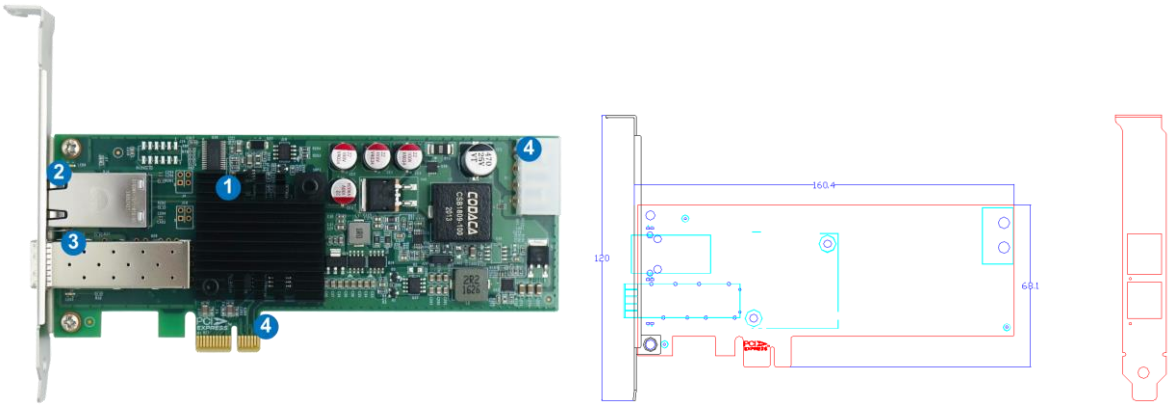
Status indication	PoE: Green
	1000Mbps, Orange bright + Green flashing
	100Mbps, Green flashing, 10Mbps, No

Order Information

P/N	Description
LRES4004PT-POE	PCIe x1 Dual-port Gigabit SFP / POE Hybrid Ethernet Network Adapter

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

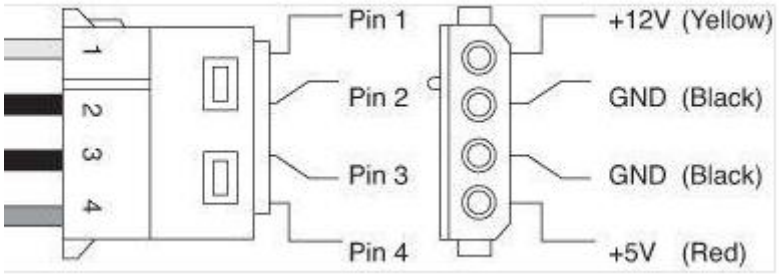
Product Structure



1. Heat sink
2. 1*1G RJ45 Connector
3. 1*1G SFP Connector
4. DC ATX PoE Power Connector
5. PCIe x1 Bus
6.

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

4-Pin extended input interface pin definition



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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