

## LRES2004PT-POE

—PCIe x4 Quad-port PoE+ GigE Vision Frame Grabber Card (Intel I350 Based)

### Overview



LRES2004PT-POE is a quad-port copper gigabit ethernet PCI Express x4 PoE+ ethernet frame grabber independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel I350 chip. It is also compatible with PCIe x8 and x16. The grabber adapter design is mainly designed for industrial field visual inspection servers and equipment, visual field clients, fast mobile ethernet data transmission equipment, etc., and is also suitable for ordinary servers.

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 quad-port ethernet MAC+PHY controller, the LRES2004PT-POE allows up to four ports simultaneously in a gigabit ethernet connection. Working in a full-duplex mode of operation to accommodate high-performance network communications, you can extend bandwidth through link aggregation while conserving PCI Express channel resources without consuming bus bandwidth.

## Key Features

1. Single-port PoE output power consumption up to 30W, provides an external large 4-Pin power supply replenishment interface.
2. Adaptive power consumption output for external devices: Class 0, Class 1, Class 2, Class 3;
3. The adapter card adopts a wider RJ45 pitch design;
4. The interface specially designed for industrial cable access effectively solves the problem of compact network port in industrial places and is compatible with ordinary cable access;
5. 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;
- 6, carefully selected thickened gold RJ5 connector to ensure a more secure and reliable connectivity;
- 7, 4\*8-pin RJ45 design can save the motherboard's valuable PCIe slot resources.

## Specifications

Controller	Intel I350
Cable medium	Copper
Cable Type	Cat 5E and Cat6: 1000Base-T up to 100m (POE power supply requirements Cat5)
	Cat 5E and Cat6: 100Base-T up to 100m (POE power supply requirements Cat5)
Baffle Configuration	Full height
Power Consumption	5.0W
PoE Power/port	30W
Total output power	Power form PCIe up to 75W
	Power form 4-Pin up to 120W
System Support	Windows XP/Vista/7/8/8.1/10/11
	Windows Server 2003 R2/2008 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	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 °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)	156.7*104.4*1.6
Weight(g)	*

## LED Indicators

Status indication	1000Mbps, Orange bright + Green flashing
-------------------	--

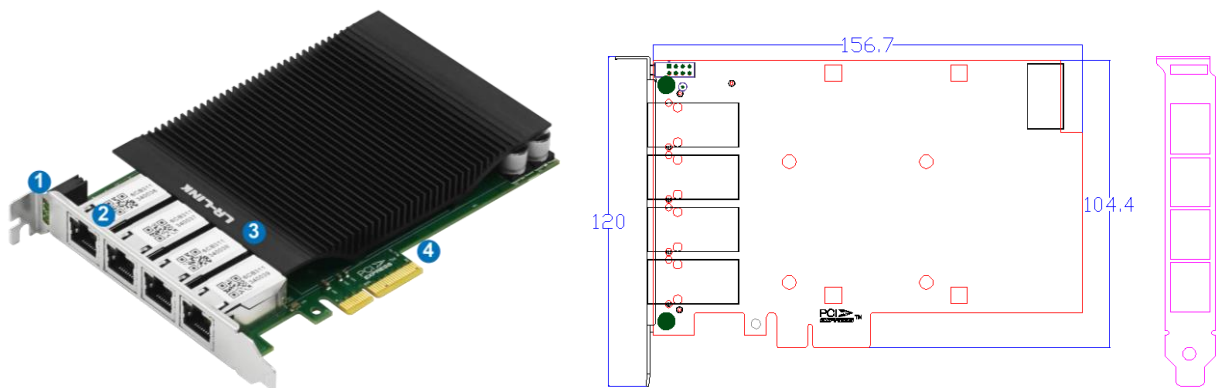
	10/100Mbps, Green flashing
--	----------------------------

## Order Information

P/N	Description
LRES2003PT	PCIe x4 Dual-port Copper Gigabit Ethernet Network Adapter

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

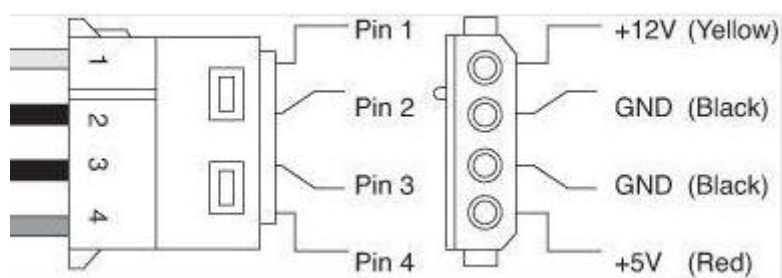
## Product Structure



1. POE indication
2. 4\*1G RJ45 Connector
3. Heat sink
4. PCIe x4 Bus

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, 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.

---

### SHENZHEN LIANRUI ELECTRONICS CON.,LTD.

ADD: C4 Bldg., Xintang Industry Zone, Baishixia Fuyong Town, Baoan District Shenzhen China  
T10 Bldg., Xintang Industry Zone, Baishixia Fuyong Town, Baoan District Shenzhen China  
Tel: +86(0)755-33671531 33671533 Fax: +86(0)755-29082065  
Product Sales [service@lr-link.com](mailto:service@lr-link.com)  
Technical Support [support@lr-link.com](mailto:support@lr-link.com)  
WEB [www.lr-link.com](http://www.lr-link.com)



Copyright © Shenzhen Lianrui Electronics CO.,LTD, 2006-2022. All rights reserved