Product Brief

Professional suppier of NIC

LREG1004PT-POE

— PCIe x4 Quad-ports Gigabit Copper Ethernet Frame Grabber With Hardware TOE (Intel Controller Based)

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Overview

LREG1004PT-POE is a quad-port gigabit PoE+ Ethernet image acquisition card independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel main control chip solution. The capture card conforms to the GigE Vision standard and allows users to use standard cables for fast image acquisition and transmission in industrial machine vision work connected to industrial cameras.

The Ethernet frame grabber has a TOE (Trigger Over Ethernet) function, which integrates an advanced Ethernet trigger based on FPGA, which can accurately synchronize multiple cameras to trigger acquisition, which reduces the cost of hardware and IO in practical applications. It is also convenient for wiring and use on site.

Each card of the capture card integrates four Gigabit Ethernet interfaces, which can support multiple capture cards installed on a system, and perform consent management control and unified triggering, and support online viewing of the camera port status.

There is also a software trigger on the TOE trigger mode. This trigger mode is more flexible and convenient. You can directly input a specific trigger online without adding additional hardware devices. Then the entire TOE trigger mode is as follows: 1. External synchronous pulse input, 2. Quadrature encoder input. These two are based on FPGA hard-wired logic, which can ensure accurate and reliable triggering.

The capture card has a PoE power output protection mechanism, which automatically adjusts the PoE output according to the power of the terminal device to avoid damage to the device due to overcurrent output, and provides overcurrent and overvoltage protection for protecting the camera.

The LREG1004PT-POE intelligent frame grabber card is particularly suitable for machine vision, 3D image acquisition, process control, multi-directional machine vision positioning, medical imaging, traffic monitoring, motion analysis, precise positioning, etc. due to its excellent performance. Use in demand areas.

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

Key Features

• Joint software & hardware solution

Integrated software and hardware TOE, software online management collaboration function, software and hardware combination to better achieve management and maintenance.

• Time synchronization trigger

Data, power supply and trigger signal are transmitted through a single connection line to ensure that each port is synchronized in time to obtain the trigger signal.

• PoE protection

According to the terminal adaptive output PoE power, adapt to class0\1\2\3\4, up to 30W per port, while providing overvoltage and overcurrent protection.

• High temperature resistance

Support high temperature use.

• Doka use

Support multiple boards to be used on one system at the same time.

Specifications

Controller	Intel
Transmission medium	Copper
Medium Type	Cat 5E and Cat6: 1000Base-T up to 100m (POE power supply minimum requirement Cat5)
	Cat 5E and Cat6: 100Base-T up to 100m (POE power supply minimum requirement Cat5)
Baffle Height	Full Height
PoE Output (Max)	30W/port
OS Support	Windows 7、8/8.1、10
	Windows Server 2008 / R2, 2012 / R2, 2016 / R2, 2019 / R2
	CentOS / RHEL 6.x / 7.x or later
	Ubuntu14.x/16.x or later
	FreeBSD 9 / 10 / 11 or later
	Vmware ESX/ESXi 5.x / 6.x or later
	Linux Stable Kernel version 2.6.x / 3.x / 4.x or later
Bus Type	PCIe v2.1 x4
Data rate per port	10/100/1000Mbps
Connector	4*1G RJ45
Power Supply	PCIe + ATX

Technical Features

Standards compliant	GigE Vision 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)
iSCSI	No
WoL	No
Jumbo Frames	Yes
DPDK	Yes
PXE	No
FCoE	No

Environment Features

Operating Temperature	0℃ to 55℃ (32℉ to 131℉)
Storage Temperature	-40℃ to 70℃ (-40℉ to 158℉)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35℃
Certification	FCC ,RoHS , CE

Physical Features

Size (mm ±0.5mm)	178.7*120*21
Weight (g ±2g)	*

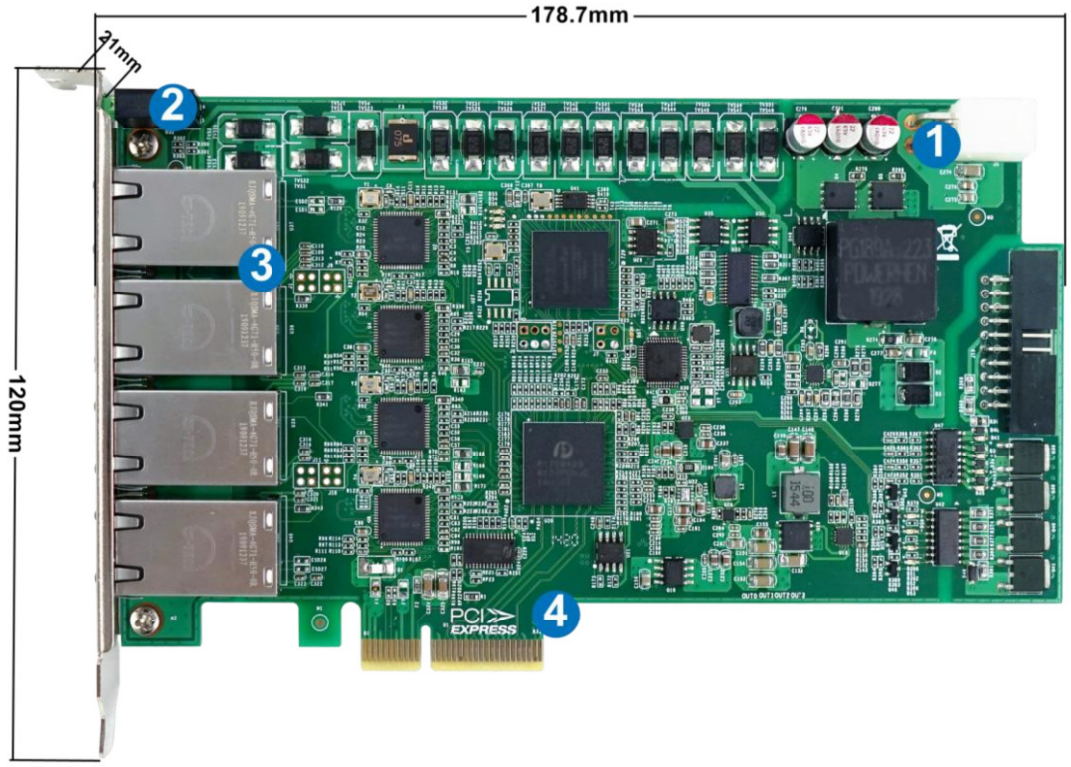
LED Indication

LED indication	POE, Green
	1000Mbps, Yellow + Green
	10Mbps/100Mbps: Green

Order information

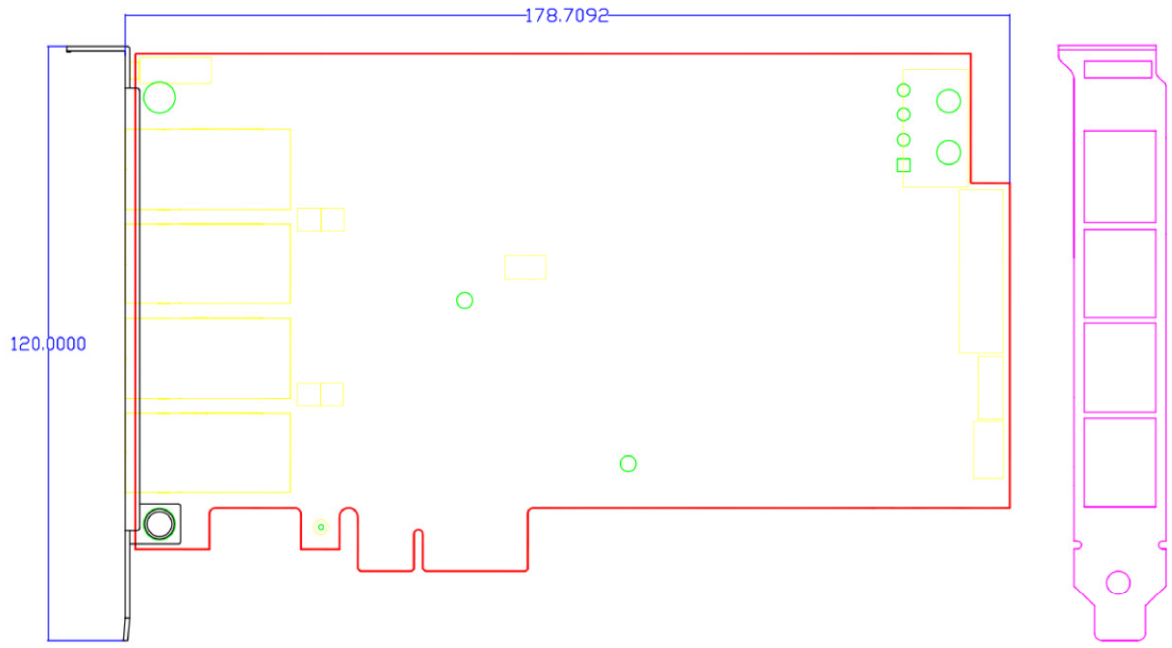
P/N	Description
LREG1004PT-POE	PCIe x4 Quad-ports Gigabit Copper Ethernet Frame Grabber With Hardware TOE (Intel Controller Based)

Product Structure



1. 4-Pin external PoE+ power supply interface
2. PoE work indicator
3. 4* GigE RJ45 interface
4. PCIe x4 bus interface

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



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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 M.2 10/100/1000Mbps Network Adapter
- § LR-LINK Mini PCIe 10/100/1000Mbps Network 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,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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