

LRES2022PT

-- PCIe x1 Single-port 2.5G Copper Ethernet Network Adapter (Realtek RTL8125 Based)

Overview



LRES2022PT is a PCIe x1 2.5G Ethernet network adapter independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Realtek RTL8125B solution. This adapter card has a universal and low-cost way to deploy 2.5GbE Ethernet network connections. It can provide the network with four speed links: 2.5 Gbps, 1G, 100Mbps, 10Mbps. This product is designed to be used without the need for a 10 Gigabit port but a Gigabit network port, which can solve the computer's link demand for network speed.

This network adapter card adds a 2.5GBASE-T technology Ethernet port to the computer through the PCIe x1 slot. Can be widely used in industrial control computers, embedded computers, single board computers, digital multimedia and other network equipment, can achieve Windows, Linux and other system support. Through the existing Gigabit Ethernet network, 2.5 Gigabits, which is up to 250% higher than the Gigabit network speed, is realized, and an efficient, energy-efficient and cost-effective multi-gigabit Ethernet solution is realized.

Key Features

- Low cost, low power, energy-efficient Ethernet and DMA merging.
- Single-port 2500MBASE-T controller with integrated MAC and PHY
- 2500Mbps Ethernet networks transition.
- PCI Express x1 interface

Specifications

Controller	Realtek RTL8125
Baffle Height	Full height & half height
Transmission medium	Copper
Cable type	2500Base-T/1000Base-T Cat 5E/6 or higher, up to 100m
	100Base-Tx Cat5/5E/6 or higher, up to 100m
	10Base-T Category 3/4/5/5E/6 or higher, up to 100m
Power Consumption	1.0W
System Support	Windows 7/8/8.1/10
	Windows Server 2008 R2/2012 R2/2016 R2/2019 /2019 R2;
	Linux Stable Kernel version 2.6.32/3.x/4.x or later;
	Linux CentOS/RHEL 6.5 / 7.x or later;
	Ubuntu 14.x/15.x/16.x or later;
	VMware ESX/ESXi 4.x/5.x/6.x or later
Bus Type	PCIe x1
Data rate supported per port	10/100/1000/2500MbE
Connector	1*2.5G RJ45

Technical Features

Standards compliant	IEEE 802.3bz (2.5GBASE-T) IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3i 10BASE-T IEEE 802.3x Full Duplex and flow control IEEE 802.3ad Link aggregation for parallel links IEEE 802.1Q VLAN IEEE 1588 IEEE 802.3az - Energy Efficient Ethernet (EEE)
iSCSI	No
WoL	Yes
Jumbo Frames	YES
DPDK	Yes
PXE	Yes
FCoE	No

Environment Features

Operating Temperature	0 °C to 55 °C (32 °F to 158 °F)
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35°C

Physical Features

Size(mm)	80*120*21
Weight(g)	

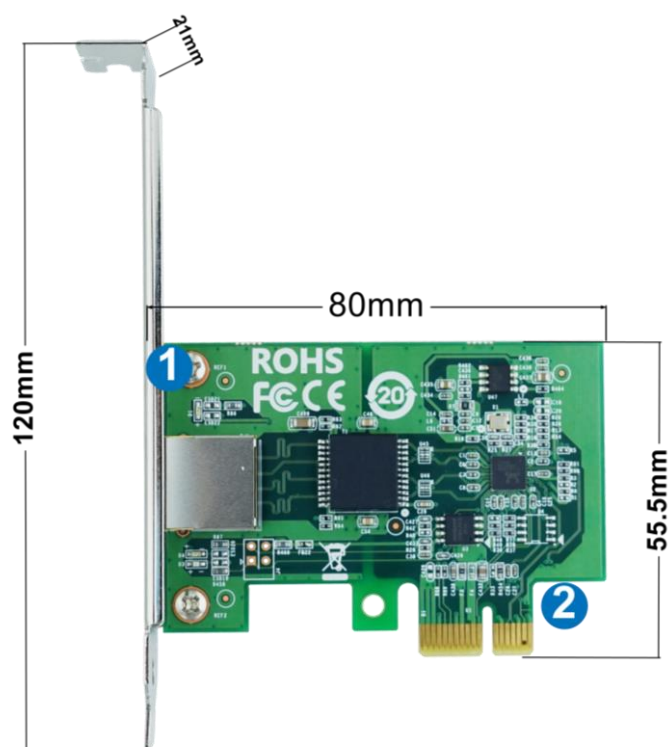
LED Indicators

LED Indicators	2500Mbps: Green Link + Green Blink
	1000Mbps: Yellow Link + Green Blink
	10Mbps/100Mbps: Green Blink

Order Information

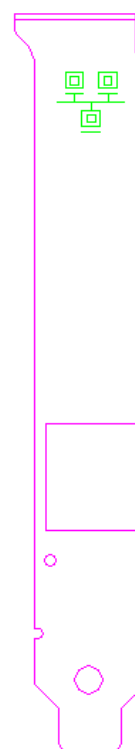
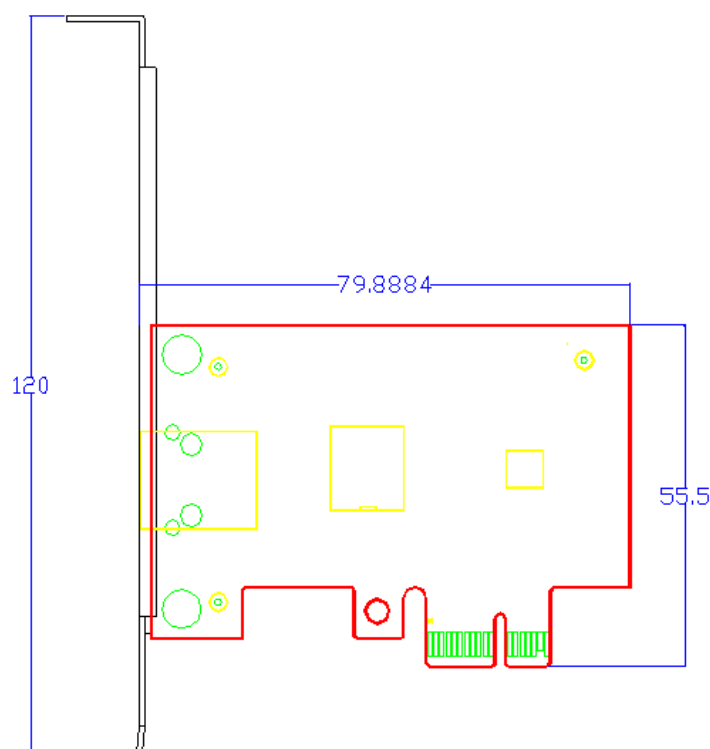
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Product Structure



1. 1*2.5G RJ45 Connector
2. PCIe x1 Bus

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 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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