

LRES1005PF-4SFP+

-- PCIe x8 Quad Port 10G SFP+ Ethernet Network Adapter (Qlogic QL41xxxx Based)

Overview



LRES1005PF-4SFP + is a PCI Express v3.0 x8 four-port fiber 10G Ethernet server adapter developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Qlogic QL41xxxx solution. The adapter is designed for large-capacity converged networks and is backward compatible with PCIe v2.1 / v2.0 / v1.1. The adapter can achieve four-port full-duplex throughput of up to 80GB on a PCI Express v3.0 x8 slot.

This Ethernet optical network card (LRES1005PF-4SFP + product supports stateful and stateless offloading, and includes functions such as network virtualization offloading, storage offloading, etc., and can be connected to the switch through FastLinQ SmartAN without user intervention. Supports CIFS, NFS for network storage, RoCE, iWARP to support RDMA applications and use cases, and supports all offload traffic types on each port. This feature offload can bring excellent storage and network performance, as well as lower CPU usage, thereby significantly improving system performance. Supports the sideband interface (NC-SI) of the network controller, and supports communication between the host and the management controller (BMC) on top of the NC-SI to allow high speed between the local host and the BMC or management controller (MC) Communication.

Key Features

- Quad SFP+ Connectivity
- PCI Express (PCIe) v3.0 (8.0GT/s) x8 lanes
- Network Virtualization
- Boot support (PXE, UEFI)
- IEEE 802.1q VLAN support with VLAN tag insertion
- Low profile & full-height bracket

Specifications

Controller	Qlogic QL41xxxx
Baffle Height	Full height & half height
Fiber Type	10GBase-SR、 10GBase-LR、 10GBase-ER、 10GBase-ZR、 10GBase-LRM、 10GBase-Cu
Power Consumption	11.8W
System Support	Windows 10
	Windows Server 2008 R2/2012 R2/2016 R2/2019 R2
	CentOS / RHEL 7.4 or later
	Ubuntu 16.10 or later
	Linux Kernel 4.x/5.x or later
	VMware ESXi 6.x or later
Bus Type	PCI Express v3.0 (8.0GT/s) x8 , compatible x16
Data Rate per Port	10000MbE
Connector	4*SFP+

Technical Features

Standards Compliant	IEEE 802.3ae 10GBase-X IEEE 802.3x Full Duplex and flow control IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3ad IEEE 802.1Q VLAN IEEE 802.1Qaz IEEE 802.1Qbb IEEE 802.1AS IEEE 802.1AX
RDMA(RoCE,iWARP)	Yes
iSCSI	No
WoL	No
Jumbo Frames	Yes
DPDK	Yes
PXE	Yes
FCoE	No
VMDq、SR-IOV	Yes
IPsec	Yes
Network Virtualization	VXLAN, geneve, NVGRE

Environment Features

Operating Temperature	0 °C to 55 °C (-13 °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)	163.6*120*21
Weight (g)	*

LED Indicators

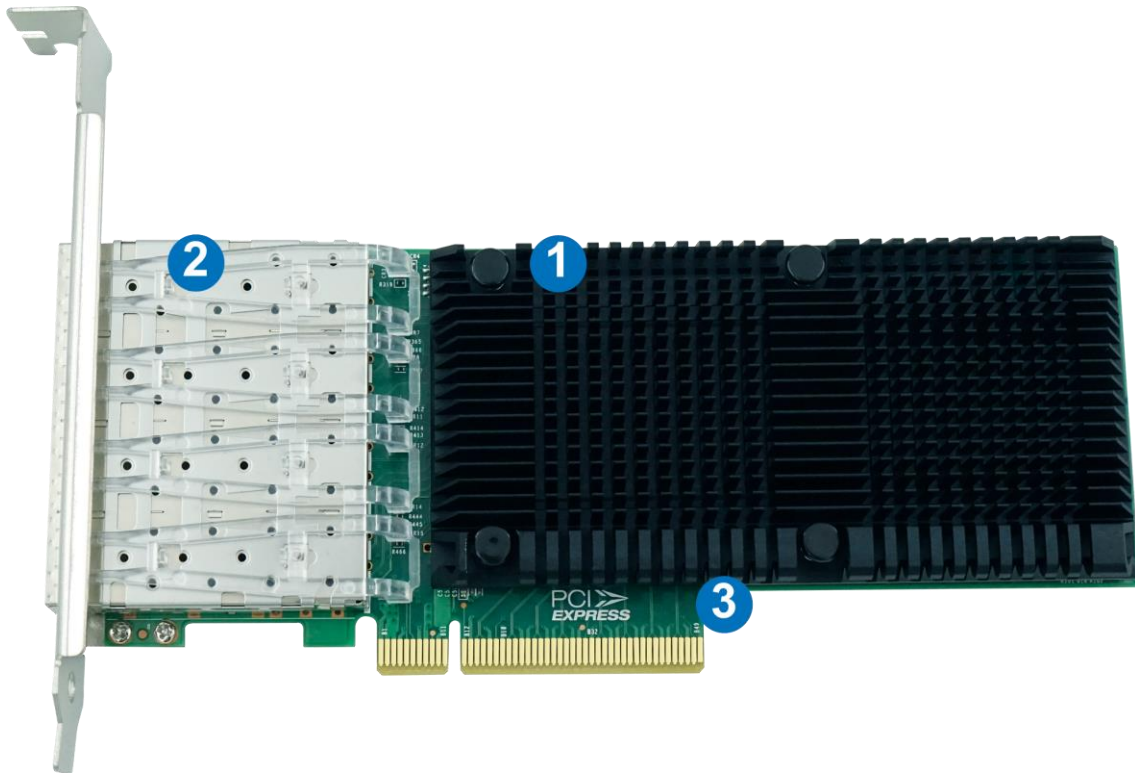
LED Indicators	Yellow Link + Green Blink
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Order Information

P/N	Description
LRES1005PF-4SFP+	PCIe x8 Quad Port 10G SFP+ Ethernet Network Adapter (Qlogic QL41xxxx Based)

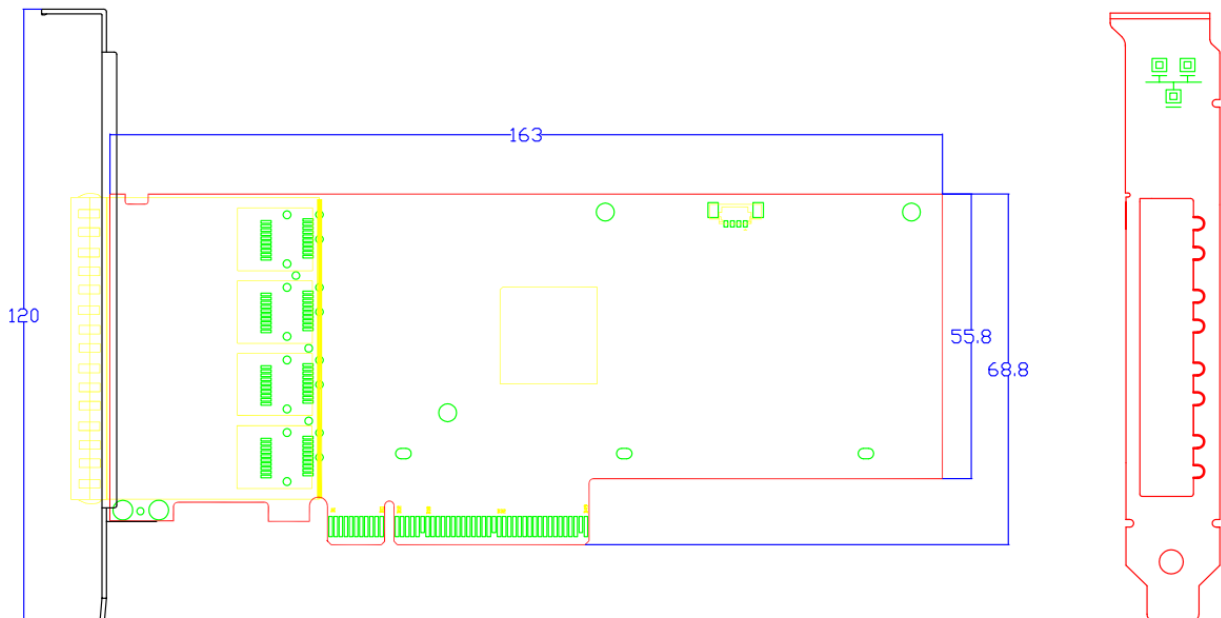
PS: Above details are only for reference, if there is any change, no prior notice.

Product Structure



- 1. Heat Sink
- 2. 2*10G SFP+ Connector
- 3. PCIe x8 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 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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