LRES8003PF-BP-SR

—PCIe x8 Quad-port 10G SR Dual-way Bypass Ethernet network adapter (Intel XL710)

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Overview

LRES8003PF-BP-SR is a PCIe v3.0 x8 quad-port 10G dual-way Bypass ethernet network adapter developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel XL710. LRES8003PF-BP -SR has four fully integrated 10 Gigabit ethernet media access controller ports. In addition to the function of managing the ethernet MAC and PHY layers, it can also perform traffic management on the passing data packets. The controller can share tasks for the server host through hardware acceleration, such as TCP/UDP/IP verification, offloading, computing tasks, and TCP segmentation.

LRES8003PF-BP-SR adopts Intel's main controller with wide compatibility and performance guarantee, which can realize high-efficiency work and bypass work of conventional quad-port 10G ethernet.

It can be widely used on high-throughput gateways, firewalls and other network devices. In actual operation, it can be used in combination with program queues to reduce application delay and improve throughput.

Key Features

1. An PCIe x8 Quad Port 10G Dual Bypass Ethernet Network Adapter Based on Intel XL710.
2. With a rate of 10Gbps.
3. It can share tasks for the server host through hardware acceleration.

Specifications

Controller	Intel XL710
Cable medium	Optical Fiber
Fiber Type	10GBase-SR\10GBase-LR\10GBase-Cu
Bracket Height	Full height
Power (min)	5.748 W
Power (max)	6.3 W
System Support	Windows 7 /8 /8.1 /10 /11
	Windows Server 2008 /2012 /2016 /2019 /2022
	RHEL/Centos7.3 /7.6 /7.9 /8.2 /8.3
	Deepin 15.11 /20 /20.6
	VMware ESXi 6.5 /6.7 /7.0
	Ubuntu 16.04.3 /18.04.5 /20.04.1
	SUSE 12.5
	FreeBSD 12.2
	ZTE New Fulcrum 3.2.2 /5.0.5
	Asianux Server v7.0
	Galaxy Unicorn v10 /v10 SP1
	NeoKylin 7.6
	Zhongke Fangde desktop operating system 4.0
	Zhongke Fangde server operating system
	Tongxin UOS 20
	Emind OS
	Mikrotik
	iKuai router
Bus Type	PCIe 3.0 (8GT/s) x8,x16
Data rate per port	10Gbps
Connector	4*10G SFP+

Technical Features

Protocol Support	IEEE 802.3ae 10 Gigabit Ethernet over fiber IEEE 802.3x Full Duplex and flow control IEEE 802.1AS / IEEE 802.1Q VLAN IEEE 802.3AD / IEEE 802.3ad IEEE 802.3az - Energy Efficient Ethernet (EEE) IEEE 802.1P / IEEE 802.3ac
PXE	No
DPDK	Yes
WoL	No
iSCSI	Yes (can be set)
Jumbo Frames	Yes
FCoE	Yes (can be set)
PCI-SIG*SR-IOV	Yes
VMDq	Yes
RSS	Yes
PCI-SIG*SR-IOV	Yes
UEFI	Yes

Environment Features

Operating Temperature	0 ℃ to 55 ℃ (32 ℉ to131 ℉)
Storage Temperature	-40 ℃ to 70 ℃ (-40 ℉ to 158 ℉)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 ℃
Certification	FCC, CE, RoHS

Physical Features

PCB Size(unit:mm)	107*178*1.6
Package size（unit:mm）	250*170*32
Weight(g)	*

LED Indicators

10G	Connection Status	Orange Link + Green Link
	Transfer status	Orange Blink + Green Link
Bypass function	Turn on	Green Link
	turn off	N/A

Order Information

Model	Description
LRES8003PF-BP-SR	PCIe x8 Quad-port 10G Dual-way Bypass Ethernet network adapter (Intel XL710)

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

Product Structure
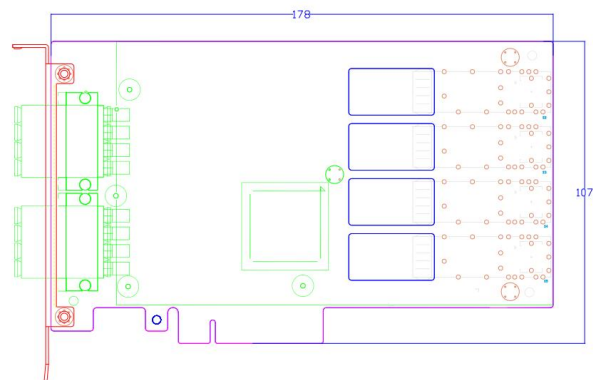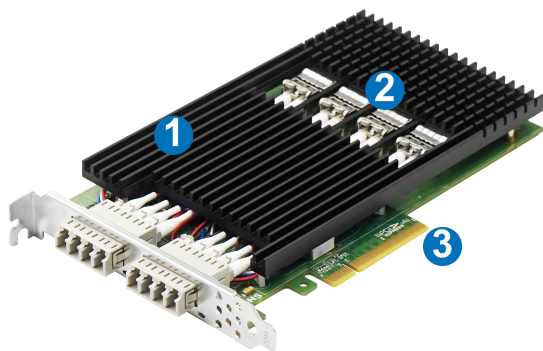
1. Heat sink
2. 4*10G SFP+ Connector
3. PCIe x8 bus

PS: The picture is for reference, and the actual product shall prevail.

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   Adapter
§ LR-LINK PCIe 1G/2.5G/5G/10Gbps Server

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.

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