LREC9902BF-2QSFP+

— PCIe x8 Dual-port 40G QSFP+ Ethernet Network Adapter (Intel XL710 Based)

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Overview

LREC9902BF-2QSFP+ is a PCI Express x8 dual port 40G Ethernet server adapter independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel XL710 main control. It is the latest development of the research and development team of Shenzhen Lianrui Electronics Co., Ltd. The server adapter is mainly used in IDC rooms, high-end servers, high-end devices. The LREC9902BF-2QSFP+ provides a simple integration into any PCI Express x8 Ethernet server network. The adapter is designed for 40 Gigabit network performance. Optimization makes the input/output of network systems no longer a bottleneck for high-performance network applications. The LREC9902BF-2QSFP+ is based on the Intel XL710 high-performance Ethernet controller. In addition to managing the MAC and PHY Ethernet layer functions, the controller manages PCI Express data table traffic at its switch link and physical/logical layer. Using hardware acceleration, the controller offloads tasks from the host, such as TCP/UDP/IP checksum calculations and TCP partitioning.

The LREC9902BF-2QSFP+ is based on the high-speed PCI Express v3.0 x8 interface and is backward compatible with PCI Express v2.1, PCI Express v2.0 transfer rate interfaces.

The LREC9902BF-2QSFP+ supports Intel® PRO Smart Install and the new Intel® PROSet designed for Microsoft Device Manager to simplify installation and management. The Intel PROSet program simplifies the installation process for the adapter.

Key Features

• Dual QSFP+ Connectivity
• PCI Express (PCIe) v3.0 (8.0GT/s) x8 lanes
• Network Virtualization
• PXE boot
• IEEE 802.1q VLAN support with VLAN tag insertion
• Low profile & full-height bracket

Specifications

Controller	Intel XL710
Baffle Height	Full height & half height
Fiber Type	40000Base-SR, 40000Base-LR, 40000Base-Cu
Power Consumption	5.6W
System Support	Windows 7/8/8.1/10
	Windows Server 2008 R2/2012 R2/2016 R2/2019 /2019 R2
	Linux Stable Kernel version 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	PCI Express v3.0 (8.0GT/s) x8 , compatible with x16
Data Rate Supported per port	40000MbE
Connector	2*QSFP+

Technical Features

Standards Compliant	IEEE 802.3ba 40 Gigabit Ethernet IEEE 802.3x Full Duplex and flow control IEEE 802.3BD IEEE 802.1AS IEEE 802.1Q VLAN IEEE 802.3AD IEEE 802.3az - Energy Efficient Ethernet (EEE) IEEE 802.3ap
PXE	Yes
iSCSI	Yes
FCoE	Yes
DPDK	Yes
WoL	No
VMDq	Yes
Jumbo Frames	Yes
RSS	Yes
PCI-SIG*SR-IOV	Yes
Network virtualization	VXLAN, NVGRE, Geneve, Network Service Headers(NSH), VEPA, VEB

Environment Features

Operating Temperature	0 ℃ to 55 ℃ (-13 ℉ to 158 ℉)
Storage Temperature	-40 ℃ to 70 ℃ (-40 ℉ to 158 ℉)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 ℃

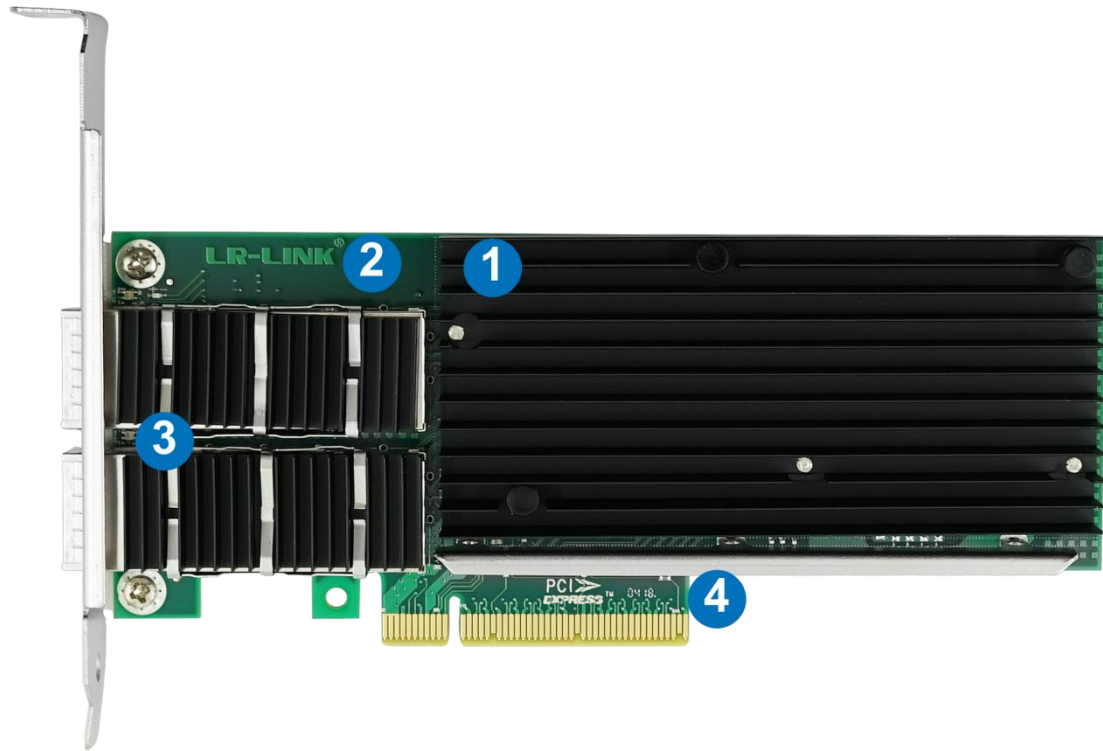## Physical Features

Size(mm)	165*120*21
Weight(g)	175

LED Indicators

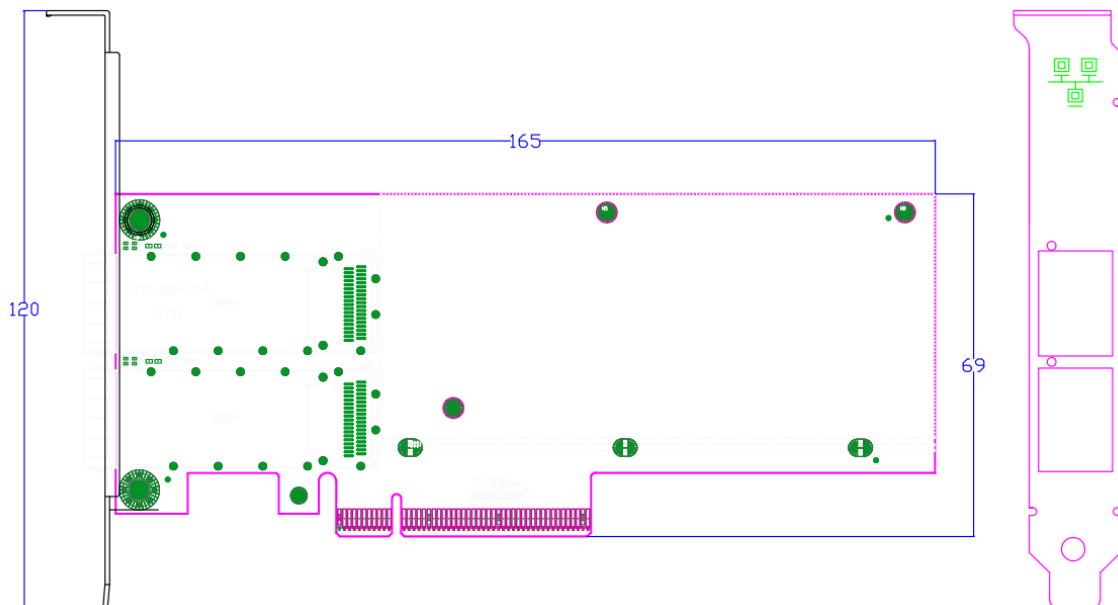| LED Indicators	Yellow Link + Blue Link + Green Blink

Order Information

P/N	Description
LREC9902BF-2QSFP+	PCIe x8 Dual-port 40G QSFP+ Ethernet Network Adapter 2*QSFP+ (Intel XL710 Based)

1. Heat Sink
2. LR-LINK LOGO
3. 2*40G QSFP+ Connector
4 . PCIe x8 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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