LREC9804BF-4SFP+

— PCIe x8 Quad-port 10G SFP+ Ethernet Network Adapter (Intel XL710 Based)

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Overview

LREC9804BF-4SFP+ is a PCI Express x8 Quad port SFP+ 10G Ethernet server adapter independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel XL710 chip solution. The server adapter card meets the needs of next-generation data centers by providing unparalleled features for server and network virtualization. The adapter has a flexible 4-port 10GbE link rate on a PCI Express v3.0 x8 slot for use in environments where multiple network needs are deployed. The adapter card is mainly designed for servers and high-end devices, so that system I/O is no longer a bottleneck for high-end network applications. At the same time, the adapter card can be bundled into multiple groups at the same time to achieve fault tolerance and redundancy. Network performance or extended network bandwidth enables real-time detection and implementation of routing traffic from failed ports to other members of the same group to continue operation for uninterrupted, high-performance communication. In addition to stateless offloading, the adapter card can also be distributed to the CPU core on the network traffic, improving the throughput of the network; at the same time, software offloading LSO and GSO from the host, thereby reducing CPU overhead. Free up CPU resources to handle other applications. The adapter is the ideal solution for deploying multiple networks and deploying critical network applications and environments on high-performance servers. The adapter is based on the Intel Intel X710 Ethernet MAC+PHY (Media Access Controller and Physical Interface Transceiver) four-port controller.

The LRE9804BF-4SFP+ server adapter card is designed for superior performance in multiprocessor systems. It is applied to meet the needs of network traffic and data offloading, processing and virtualization and big data computing in the new and old server markets in the current and future. When used with Microsoft's Receive Side Extension or Extensible I/O in Linux, the card effectively balances the network load between multiple central processing units (CPUs).

The LRE9804BF-4SFP+ 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.

The deployment of the LRE9804BF-4SFP+ accommodates the ideal solution for multiple network segments in the current and future years, serving the mission of high performance server performance and network application environments.

Key Features

- Qual 10G SFP+ 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	10000Base-SR, 10000Base-LR, 10000Base-Cu
Power Consumption	7.4W
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	10000MbE
Connector	4*SFP+

Technical Features

Standards Compliant	IEEE802.3ae 10 Gigabit Ethernet over fiber
	IEEE 802.3x Full Duplex and flow control
	IEEE 802.1AS
	IEEE 802.1Q VLAN
	IEEE 802.3AD
	IEEE 1588
	IEEE 802.3az - Energy Efficient Ethernet
PXE	Yes
iSCSI	Yes
FCoE	No
DPDK	Yes
WoL	No
VMDq	Yes
Jumbo Frames	Yes
RSS	Yes
PCI-SIG*SR-IOV	Yes

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

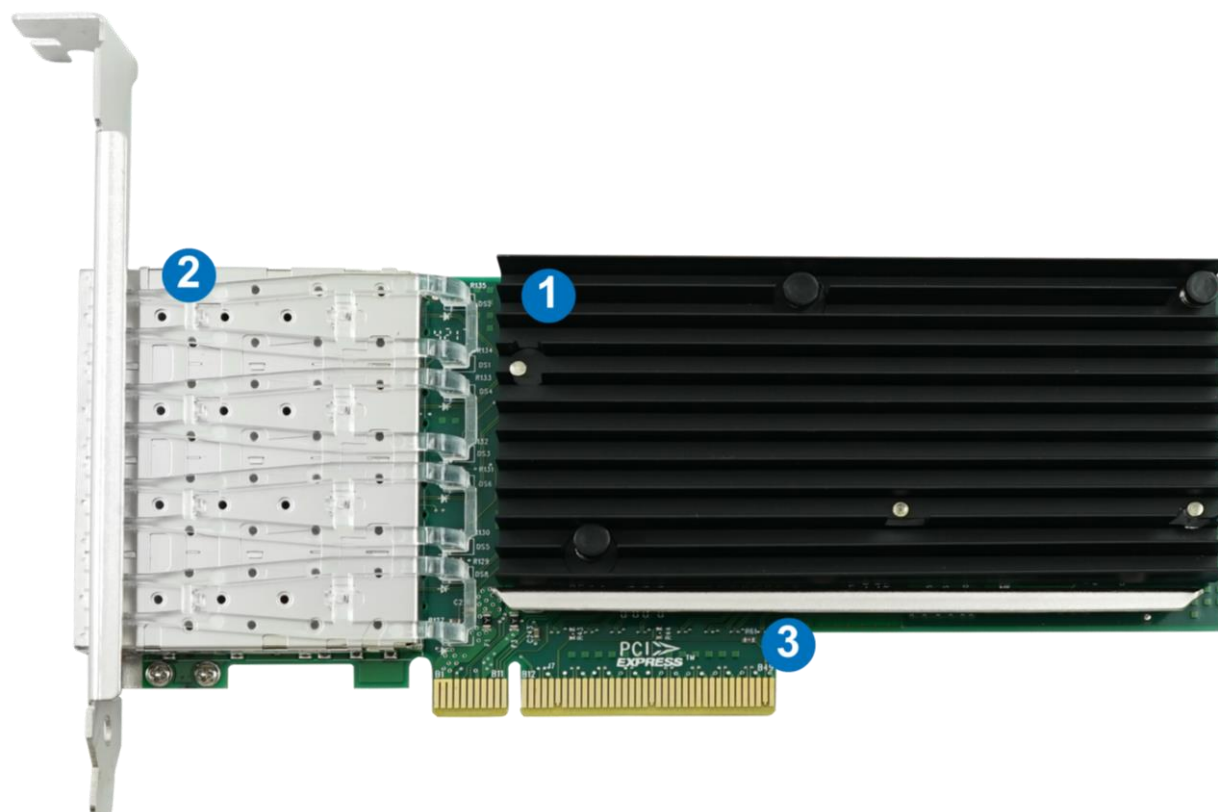| Size(mm)	163*120*21
Weight(g)	171

LED Indicators

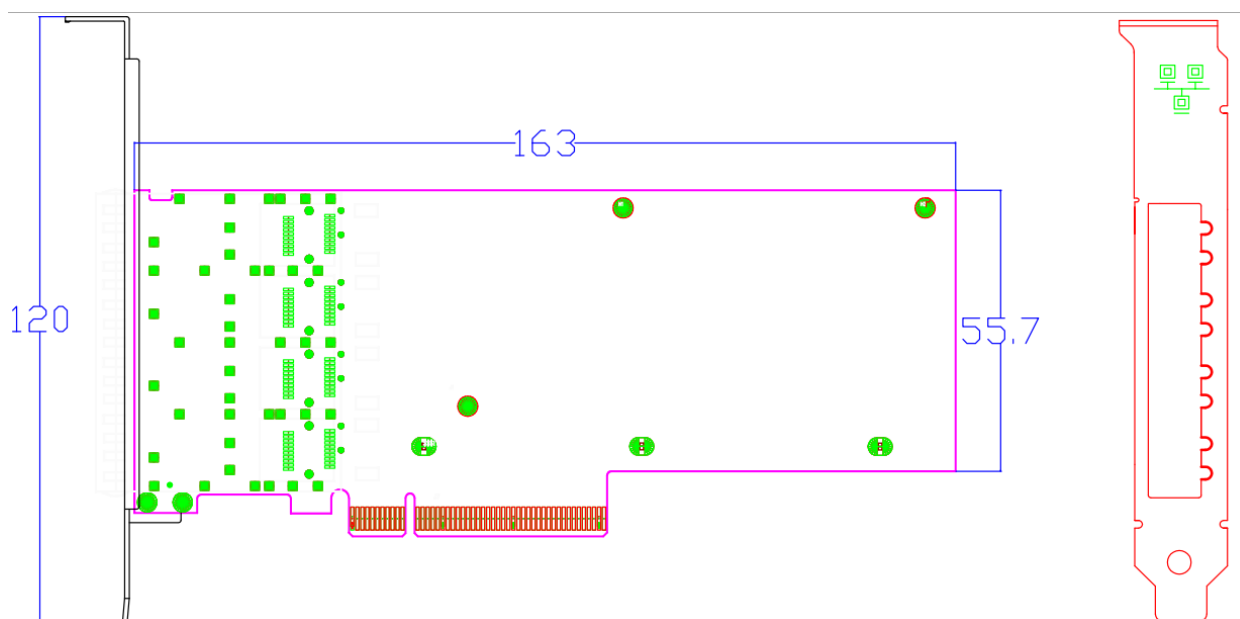| LED Indicators	Yellow Link + Green Blink

Order Information

P/N	Description
LREC9804BF-4SFP+	PCIe x8 Quad-port 10G SFP+ Ethernet Network Adapter 4*SFP+ (Intel XL710 Based)

Product Structure

1. Heat Sink
2. 4*10G SFP+ Connector
3. 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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