

LREC9802BF-2SFP+

— PCIe x8 Dual-port 10G SFP+ Ethernet Network Adapter (Intel 82599 Based)

Overview



L LREC9802BF-SFP+ is a PCI Express x8 Dual port 10G Ethernet server adapter developed by Shenzhen Lianrui Electronics Co., Ltd. based on Intel 82599 master control solution. The server adapter has 2 fully integrated 10Gt Ethernet Media Access Controller (MAC) & SFP+ ports. In addition to the functions of managing the Ethernet MAC and PHY layers, the server adapter card can also manage the traffic of the passed packets. The controller uses hardware acceleration to share tasks for the host, such as TCP/UDP/IP checksums, compute tasks, and TCP segmentation. The LREC9802BF-2SFP+ Server Adapter provides hardware-enhanced features such as intelligent queuing technology optimized for multi-core processors, with on-chip support for load balancing for higher levels of 10G Ethernet scalability. Providing Intel Virtualization Technology (VT-C), including network level, can significantly improve overall system performance in a virtual server environment. Intel VT-c technology includes several hardware optimization features that dramatically reduce I/O bottlenecks, increase throughput and reduce latency. Intel VT-c's Component Virtual Machine Device Queue (VMDq) significantly improves performance and reduces CPU utilization by offloading the data sorting load from the virtual machine monitor (VMM) to the network controller. Enhancements include offloading of inter-machine virtual machines, virtual machine direct connections (VMDc) to virtual machines.

The LREC9802BF-2SFP+ Server Adapter provides multiple hardware optimization features for I/O virtualization and supports a unified network to transform the data center with outstanding reliability, scalability and mobility. Allows local area network (LAN), storage area network (SAN), and IPC traffic to share the same Ethernet network, providing higher levels of performance support for high-bandwidth applications in evolving virtualized data centers. The server adapter card also supports iSCSI boot. This feature enables SAN and LAN traffic to share existing Ethernet infrastructure without the need for a dedicated iSCSI adapter. The advanced features included in the adapter card greatly increase the speed of iSCSI traffic & support iSCSI remote boot.

Key Features

- Dual SFP+ Connectivity
- PCI Express (PCIe) v2.0 (5.0GT/s) x8 lanes
- Network Virtualization
- PXE boot
- IEEE 802.1q VLAN support with VLAN tag insertion
- Low profile & full-height bracket

Specifications

Controller	Intel 82599
Baffle Height	Full height & half height
Fiber Type	10000Base-SR, 10000Base-LR, 10000Base-Cu
Power Consumption	8.0W
System Support	Windows 7/8/8.1/10
	Windows Server 2003 R2/2008 R2/2012 R2/2016 R2/2019 /2019 R2
	Linux Stable Kernel version 2.6.x/ 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 v2.0 (5.0GT/s) x8 , compatible with x16
Data Rate Supported per port	10000MbE
Connector	2*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	Yes
DPDK	Yes
WoL	No
VMDq	Yes
Jumbo Frames	Yes
RSS	Yes
PCI-SIG*SR-IOV	Yes

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)	167*120*21
Weight(g)	115

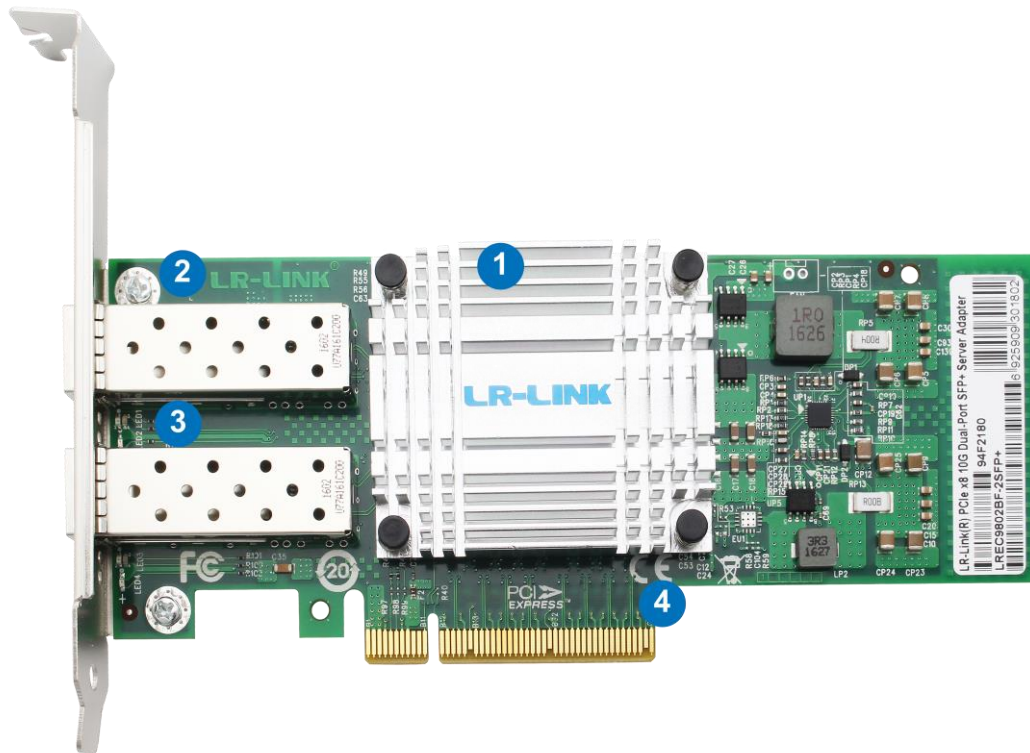
LED Indicators

LED Indicators	Yellow Link + Green Blink
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Order Information

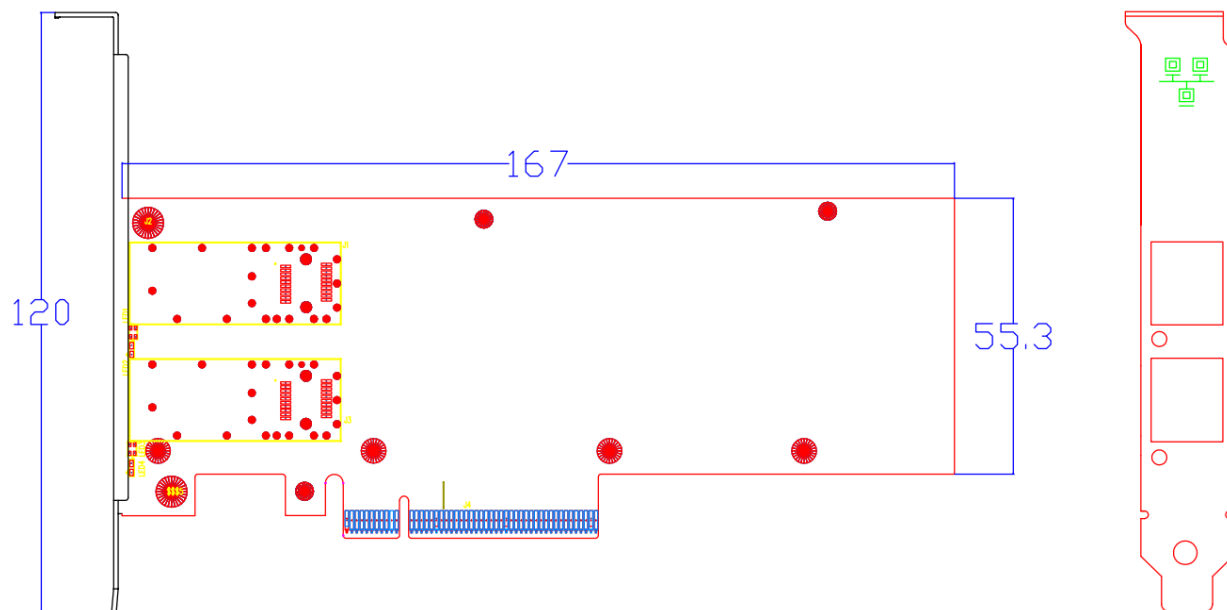
M/N	Description
LREC9802BF-2SFP+	PCIe x8 Dual-port 10G SFP+ Ethernet Network Adapter 2*SFP+ (Intel 82599 Based)

Product Structure



- 1. Heat Sink
- 2. LR-LINK LOGO
- 2. 2*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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