

LRES1026PF-2SFP28

— PCIe x8 Dual-port 25G SFP28 Ethernet Network Adapter (Mellanox ConnectX-4 Chip Based)

Overview



LRES1026PF-2SFP28 is a PCIe v3.0 x8 dual-port 25G ethernet network adapter developed by Shenzhen Lengrui Electronics Co., Ltd. based on mellanox ConnectX-4 chip. It has 1/10/25G connection for virtualization applications of network facilities, local hardware support based on Ethernet stateless uninstallation engine, direct connection technology, etc.

The SR-IOV technology of LRES1026PF-2SFP28 provides dedicated adapter resources for virtual machines in the server to meet the guarantee of isolation and protection. At the same time, I/O virtualization provides better server utilization in the data center while reducing costs and cabling complexity. Allow more virtual machines to run on the same hardware to meet more user needs.

LRES1026PF-2SFP28 adopts NVGRE, VXLAN and GENEVE hardware uninstallation engine to effectively solve the problem of virtual machine traffic transmission through encapsulation format (such as NVGRE and VXLAN) logical tunnel. It solves the network scalability and the load on the host CPU. These offloading engines encapsulate and unencapsulate coverage protocol headers, enabling traditional offloading to be performed on encapsulated traffic from these and other tunneling protocols (Geneva, MPLS, QinQ, etc.).

LRES1026PF-2SFP28 provides a very economical and flexible Ethernet adapter solution for Web 2.0, cloud, data analytics, database and storage platforms.

Key Features

1. It is a PCIe v3.0 X8 dual port fiber 25G Ethernet network adapter.
2. It has a 1, 10, 25 GIGABit connection to meet the virtualization application of network facilities.
2. It provides better server utilization for the data center while reducing costs, cabling complexity, and so on.
2. It can effectively solve the problem that vm traffic is transmitted through encapsulated logical tunnels (such as NVGRE and VXLAN). It solves the network scalability and load problem on the host CPU.

Specifications

Controller	Mellanox ConnectX-4
Baffle Height	Full-height & half-height bracket
Power Consumption	10.1W
System Support	Windows 8.1/10/11
	Windows Server 2016 R2/2019 R2/2022 R2 or later
	UOS20 or later;
	CentOS / RHEL 7.2 or later;
	Ubuntu 16.04 or later;
	KYLIN 10/10 SP2
	SLES 12 SP2/SP3 or later;
	Oracle Linux 7.8/7.9 or later;
	FreeBSD 12/13 or later;
	OPENEULER 20.03/20.03 SP1
	Fedora 32
	EulerOS 2.0 SP10/SP5 or later;
	Debian 9.13/10.8 or later;
	Citrix XenServer Host 7.1
	BCLINUX 7.6/7.7/8.1/8.2
	ALIOS 7.2
	Linux Stable Kernel version 3.10.x or later;
	Vmware ESX/ESXi 6.5 or later;
Bus Type	PCIe v3.0 x8
Data rate	25/10/1GbE
Connector	2*25G SFP28

Technical Features

Protocol Support	IEEE 802.3by-2016 25GBASE-X Ethernet IEEE 802.3ae 10GBASE-X Ethernet IEEE 802.3z 1GBASE-X Ethernet IEEE 802.1Qav IEEE 802.1Qbu IEEE 802.1Qbv IEEE 802.3br IEEE 1588 PTP v1&v2 IEEE 802.3ad IEEE 802.3az - Energy Efficient Ethernet
iPXE	Yes(Can be set up)
DPDK	Yes
WoL	No
iSCSI	Yes(Can be set up)
Jumbo Frames	Yes
FCoE	Yes(Can be set up)
RDMA	RoCE v1, RoCE V2

Environment Features

Operating Temperature	0 °C to 55 °C (32 °F to 131 °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)	143*120*21
Weight(g)	*

LED Indicators

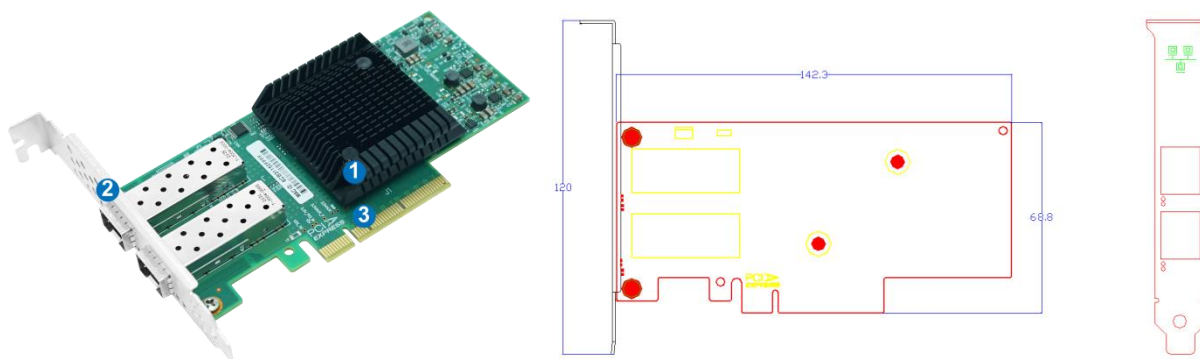
LED Indicators	25/10/1Gbps: Green Blink
	Port instructions: Yellow Blink (ethtool -p X)

Order Information

P/N	Description
LRES1026PF-2SFP28	PCIex8 Dual-port 25G SFP28 Ethernet Network Adapter (Mellanox ConnectX-4 Chip Based)

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

Product Structure



1. Radiator
2. 2*25G SFP28 interface
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: <https://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:

<https://www.lr-link.com/product.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.

<https://www.lr-link.com/contactus.html>

Linkreal Co.,LTD.

Linkreal 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, manufactured by 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, intellectual property rights and brand names etc.mentioned in specifications are only referenced. There is no infringement meaning. If there is any important and sensitive content related, please contact our company, we'll delete them, Thank you.

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The logo for LR-LINK, featuring the letters 'LR' in a large, bold, blue font, followed by '-LINK' in a smaller, blue font.

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