

LRES1027PF-4SFP28

— PCIe x8 Quad-port 25G SFP28 Internet Network Adapter (Intel E810 Based)

Overview



LRES1027PF-4SFP28 is a PCIe4.0 x8 quad-port 25G ethernet network adapter developed by Linkreal CO.,LTD. based on the Intel E810 master control solution. Adopting Intel 800 series master control, it improves application efficiency and network performance through innovative multi-functional features. With its high-density high transfer rate ports, it is optimized for high-performance system workloads in cloud and communications.

The LRES1027PF-4SFP28 contributes to performance optimization in the cloud and storage, with high-density 25G ports providing multiple on-demand connections, and the Intel 800-series master's Application Device Queuing (ADQ) providing dedicated traffic queuing to reduce latency and increase application throughput while also featuring dynamic device personalization to support protocol-specific traffic acceleration to Improve packet processing efficiency and reduce CPU overhead; the addition of iWARP and RoCE v2 RDMA technology provides high-speed, low-latency, high-throughput connectivity for cloud storage targets.

The LRES1027PF-4SFP28 contains IEEE 1588 PTP v2 Precision Time Protocol support for accurate clock synchronization.

Key Features

1. Based on Intel E810 main control chip solution;
2. PCIe4.0 x8 bus design, compatible with PCIe x16 slot;
3. Support 1G, 10G, 25G three data transfer rate.

Specifications

Controller	Intel E810
Cable medium	Fiber Optics
Cable Type	25GBASE-SR、25GBASE-LR、25GBASE-Cu
	10GBASE-SR、10GBASE-LR、10GBASE-Cu
	1GBASE-SR、1GBASE-LR、1GBASE-Cu
Bracket Height	Low Profile & Full Height
Power (min)	12.084 W
Power (max)	12.936 W
System Support	Windows 10 /11
	Windows Server 2016 /2019 /2022
	Deepin 20 /20.6 /20.9
	VMware ESXi 6.7 /7.0
	Galaxy Unicorn V10
	NeoKylin 7.6
	RHEL/CentOS 7.6 /7.9 /8.2
	Ubuntu 16.04.3 /18.04.5
	Ubuntu 20.04.1 /22.04.2
	SUSE 12 SP5
	SUSE 15 SP4
	FreeBSD 12.2 /13.2
	ZTE New Fulcrum 5.0.5 /3.2.2
	Asianux Server v7.0
	Zhongke Fangde server operating system
	iKuai router
Bus Interface	PCIe v4.0 (16.0GT/s) x8; compatible x16
Data rate per port	1/10/25 Gbps
Connector	4 * 25G SFP28
Power Supply	PCIe

Technical Features

Protocol Support	IEEE 802.3by-2016 25GBASE-X Ethernet IEEE 802.3ae 10GBASE-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
PXE	No
DPDK	Yes
WoL	No
Jumbo Frames	Yes
SR-IOV	Yes
1588 PTP	Yes
UEFI	No
SCAN CHAIN	No
ESD_Contact discharge	±2KV

Environment Features

Operating Temperature	0℃ to 55℃ (32 ℉ to 131 ℉)
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(L x W x H)	166.27 x 68.81 x 1.6mm
Package Size(L x W x H)	222 x 147 x 28 mm
Weight(g)	*

LED Indicators

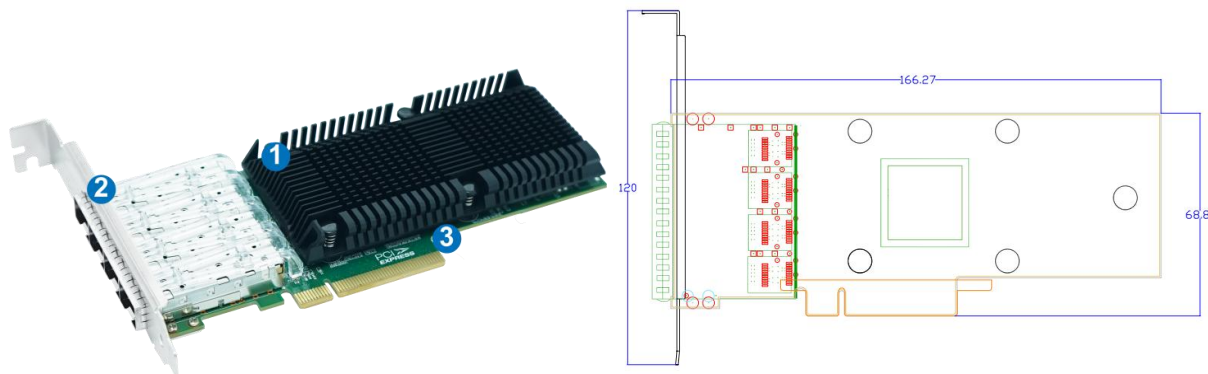
1/10 G	Connection Status	Orange Link
	Transfer status	Orange Link + Green Blink

Order Information

P/N	Description
LRES1027PF-4SFP28	PCIe x8 Quad-port 25G SFP28 Internet Network Adapter (Intel E810 Based)

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

Product Structure



1. Heat sink
2. 4*25G SFP28
3. Golden fingers

PS: The depictions provided of our products are not to scale and are intended for illustrative purposes only.

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.

Linkreal CO.,LTD.

ADD:9/10F 1B Block ECO Valley, Longgang Street, Longgang District Shenzhen China 518116 (Factory)

14F T10 Bldg., Sino-Ocean New World, Longcheng Street, Longgang District Shenzhen China 518172 (Office)

Tel:+86(0)755-33671531 33671533

Fax:+86(0)755-29082065

Product Sales service@lr-link.com

Technical Support support@lr-link.com

WEB www.lr-link.com

The logo for LR-LINK, featuring the letters 'LR-LINK' in a bold, blue, sans-serif font.

Copyright © Linkreal CO.,LTD,2006-2021. All rights reserved