

LRES1021PF-2SFP28

— PCIe x8 Dual-port 25G SFP28 Ethernet Network Adapter (Intel E810 Chip Based)

Overview



LRES1021PF-2SFP28 is a PCIe v4.0x8 dual port 25G ethernet network adapter developed by Shenzhen Lianrui Electronics Co., LTD based on Intel E810 chip. Supported by hardware-accelerated packet processing extensions and the introduction of application queue technology, the adapter provides optional support for RDMA's iWARP and RoCEv2 functions, and is downside-compatible with PCIe v3.0 & v2.0.

The application queue technology function of this Ethernet optical fiber network card introduced by Shenzhen Lianrui Electronics Co., Ltd. ensures that each application can request its own queue, that is, the data between each other is no longer confused, with up to 25Gbps interface speed, It can be widely used in network devices such as data center service, cloud computing and storage with high throughput and can handle various workloads. In practical operation, it can reduce application delay and improve throughput by using program queue.

The fiber network card provides scalable ADQ technology to improve the performance scalability and predictability of critical workloads by dedicating specific resources to critical workloads. ADQ implements application-specific data control, information, and rate limiting using optimized application thread to device data paths.

The LRES1021PF-2SFP28 uses Intel chip with wide compatibility and performance assurance. It supports PCIe v4.0 and backwards compatibility with PCIe v3.0.

Key Features

1. PCIe v4.0 x8 dual port 25G Ethernet network adapter;
2. There are hardware accelerated packet processing extension function and application queue technology;
3. Optional support for RDMA's iWARP and RoCE v2 features;
4. The adapter is compatible with PCIe v3.0 and v2.0 backwards;
5. Combining application queue with application queue can reduce application delay and improve throughput.

Specifications

Controller	Intel E810
Baffle Height	Full-height & half-height bracket
Power Consumption	13.7W
System Support	Windows Server 2016 R2/2019 R2 or later
	Linux SLES 11/12 or later;
	CentOS / RHEL 7.x or later;
	Ubuntu 16.10 or later;
	Linux Stable Kernel version 4.x or later;
	Vmware ESX/ESXi 4.x or later;
Bus Type	PCIe v4.0 x8
Data rate	25/10GbE
Connector	2*25G SFP28

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
iSCSI/NFS	Yes
WoL	No
Jumbo Frames	Yes
DPDK	Yes
PXE	Yes
FCoE	No
RDMA iWARP	Yes
RDMA RoCE v2	Yes
Virtual network	VxLAN, GENEVE, NVGRE, MPLS, VxLAN-GPE

Environment Features

Operating Temperature	0 °C to 55 °C (32 °F to 131 °F)
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 °C

Physical Features

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

LED Indicators

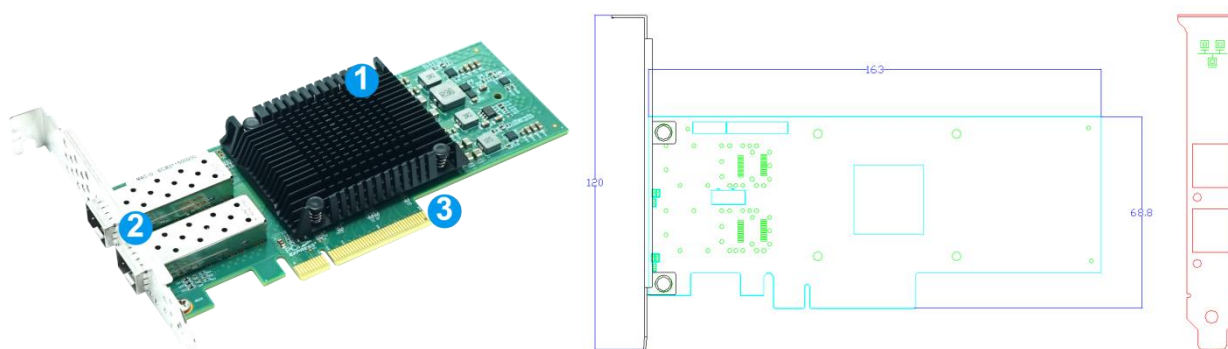
LED Indicators	25Gbps: Yellow Blink + Green Ack
	10Gbps: Green Blink + Green Ack

Order Information

P/N	Description
LRES1021PF-SFP28	PCIe v4.0 x8 Dual-port 25G SFP28 Ethernet Network Adapter (Intel E810 Chip Based)

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

Product Structure



1. Heat sink
2. 2*25G SFP28 Connector
3. PCIe v4.0 x8 Bus

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

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 Electronics 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.

SHENZHEN LIANRUI ELECTRONICS CON.,LTD.

ADD:C4 Bldg.,Xintang Industry Zone,Baishixia FuyongTown,Baoan District Shenzhen China

T10 Bldg.,Xintang Industry Zone,Baishixia FuyongTown,Baoan District Shenzhen China

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 LR-LINK logo consists of the letters 'LR' in a large, bold, blue font, followed by the word 'LINK' in a smaller, bold, blue font.

Copyright © Shenzhen Lianrui Electronics CO.,LTD,2006-2021. All rights reserved