

LRES1014PF-2QSFP28

— PCIe x16 Dual-port 100G QSFP28 Ethernet Network Adapter (Intel Chip Based)

Overview



LRES1014PF-2QSFP28 is a PCI Express v4.0 x16 dual-port optical fiber 100,000 Gigabit Ethernet network adapter developed by Shenzhen Lianrui Electronics Co., Ltd. on the basis of the Intel master control solution. It is supplemented by the expansion function of hardware acceleration data packet processing, and the application queue technology is introduced. This technology can realize the NVMe support of Fabric TCP. It also has selective support for the iWARP and RoCEv2 functions of RDMA. This adapter can At the same time, it is backward compatible with PCIe v3.0 & v2.0. The adapter card achieves a dual-port bidirectional communication transmission rate with a theoretical throughput of 400GB on a PCI Express v4.0 x16 bus.

The Ethernet optical fiber network card with independent intellectual property rights (LRES1014PF-2QSFP28) launched by Shenzhen Lianrui Electronics Co., Ltd., the optical fiber network card adopts the application queue technology function to ensure that each application can request its own queue. That is to say, the data between each other is no longer confused, with an interface speed of up to 100Gbps, which can be widely used in data center services, cloud computing, storage and other network equipment that can handle various workloads with high throughput, and combined in actual operation The use of program queues can reduce application latency and increase throughput.

The fiber optic network card provides scalable ADQ technology to improve the performance scalability and predictability of critical workloads by dedicating specific resources to critical workloads. ADQ uses an optimized application thread to device data path to implement application-specific data control, information and rate limiting functions.

LRES1014PF-2QSFP28 adopts Intel's main control with extensive compatibility and performance guarantee, supports PCIe v4.0 and is backward compatible with PCIe v3.0.

Key Features

- PCI Express v4.0 x16 dual-port 100G fiber Ethernet network adapter card.
- iWARP and RoCEv2 Remote Direct Memory Access (RDMA)
- Intel® Ethernet Adaptive Virtual Function (Intel® Ethernet AVF)
- Enhanced server virtualizations: 256 VFs, 768 VSIs
- IEEE 1588 Precision Time Protocol (v1 and v2) with per-packet time stamping.

Specifications

| | |
|------------------------------|--|
| Controller | Intel Chip |
| Baffle Height | Half height & full height baffle |
| Power Consumption | 15.0W |
| System Support | Windows 7/8/8.1/10 |
| | Windows Server 2008 R2/2012 R2/2016 R2/2019 R2; |
| | Linux Stable Kernel version 2.6.32.x/3.x/4.x/5.x or later; |
| | CentOS/RHEL 6.x / 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 v4.0 x16, Compatible with PCI Express v3.0 |
| Data rate supported per port | 100GbE |
| Connector | 2*QSFP28 |

Technical Features

| | |
|------------------------|---|
| Protocol Support | IEEE 802.3bj 100GBASE Ethernet IEEE 802.3x Full Duplex and flow control IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3AS IEEE 802.1Q VLAN IEEE 802.1Qaz IEEE 802.1Qbb IEEE 802.1x IEEE 802.1bd IEEE1588 v1&v2 |
| iSCSI | Yes |
| WoL | No |
| Jumbo Frames | Yes |
| DPDK | Yes |
| PXE | Yes |
| FCoE | No |
| RDMA (iWARP,RoCEv2) | Yes |
| Network virtualization | SR-IOV、VxLAN、GENEVE、GRE |

Environment Features

| | |
|-----------------------|--|
| Operating Temperature | 0 °C to +55 °C (-40 °F to +131 °F) |
| Storage Temperature | -55 °C to +105 °C (-67 °F to +221 °F) |
| Storage Humidity | Maximum: 90% non-condensing relative humidity at 35 °C |

Physical Features

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|------------|--------------|
| Size (mm) | 171.5*120*21 |
| Weight (g) | * |

LED Indicators

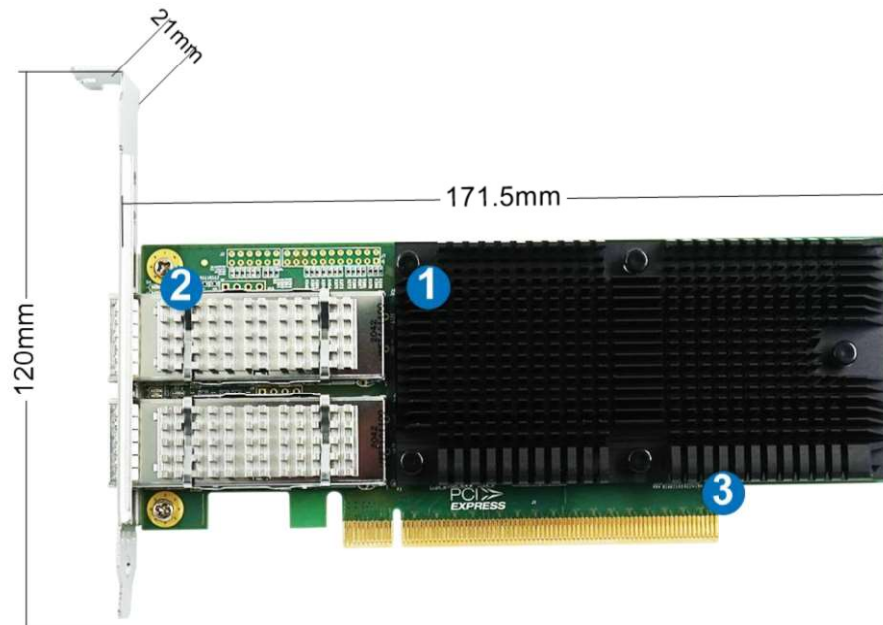
| | |
|----------------|------------------------------------|
| LED Indicators | 100Gbps, Yellow Link + Green Blink |
|----------------|------------------------------------|

Order Information

| P/N | Description |
|--------------------|--|
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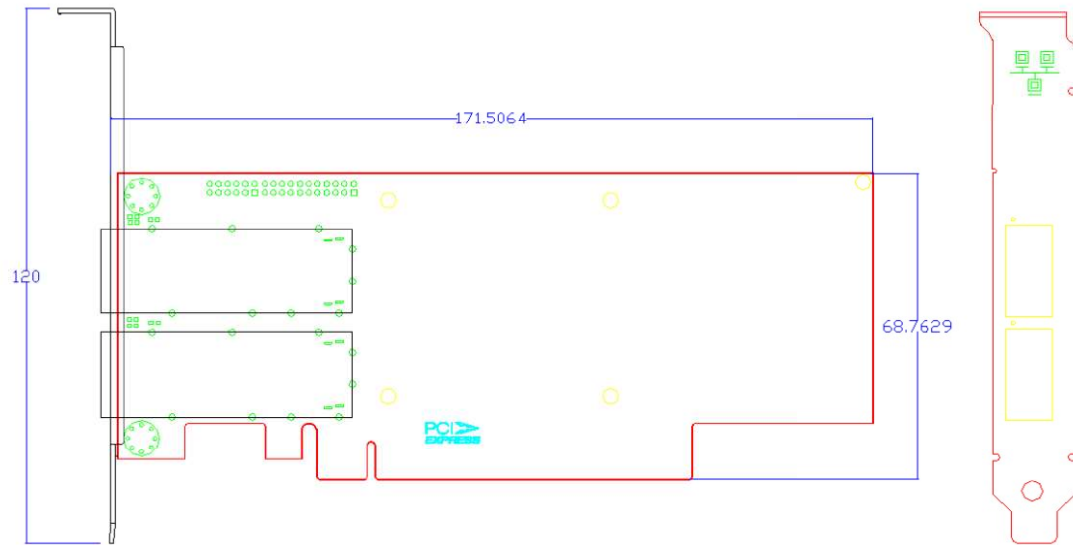
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Product Structure



1. Heat Sink
2. 2*100G QSFP28 Connector
3. PCIe x16 Connector

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