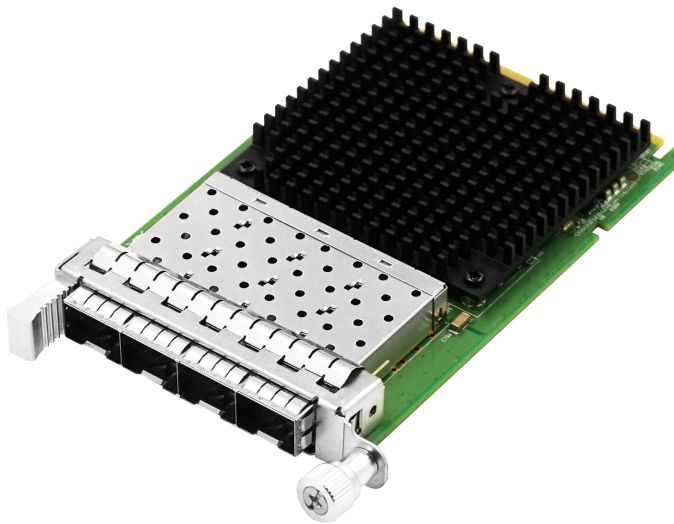


LRES3007PF-OCP

—OCP3.0 Quad-port 10G SFP+ Ethernet Network Adapter (Intel XL710)

Overview



LRES3007PF-OCP is an OCP 3.0 10G quad-port optical fiber ethernet network adapter independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel XL710 main control solution. (SFF) panel. The adapter addresses the needs of next-generation data centers by providing features for server and network virtualization technologies, delivering reliable performance in flexible LAN and SAN networks.

LRES3007PF-OCP can bundle multiple ports into groups to achieve fault tolerance and redundancy to ensure network performance and expand network bandwidth. It can implement real-time self-detection and route communication from faulty ports to other members of the same group to continue running. Enable uninterrupted, high-performance communications. In addition to stateless offloading, the adapter can also distribute network traffic to CPU cores, improving network throughput. At the same time, LSO and GSO are offloaded from the host software, thereby reducing CPU overhead for parity checks. Free up CPU resources to work on other applications. The LRES3007PF-OCP is an ideal solution for deploying multiple networks and deploying key network applications and environments on high-performance servers. The adapter card is based on Intel Intel XL710 Ethernet MAC+PHY (Media Access Controller and Physical Interface Transceiver) four-port controller.

The LRES3007PF-OCP is designed for excellent performance in multiprocessor systems. It is applied to meet the needs of the current and long-term server market for network traffic and data distribution, processing and virtualization, big data computing, and cloud computing.

Key Features

1. OCP 3.0 10G SFP+ Quad-port fiber ethernet network adapter.
2. The physical board size used complies with OCP 3.0 design specifications, small size (SFF).
3. This network adapter meets the needs of next-generation data centers by providing features for server and network virtualization technologies.
4. Applied to meet the needs of the server market for network traffic and data distribution, processing and virtualization, big data computing, cloud computing, etc.

Specifications

Controller	Intel XL710
Cable medium	Optical Fiber
Fiber Type	10GBase-SR、10GBase-LR、10GBase-ER、10GBase-ZR、10GBase-LRM、10GBase-Cu
Bracket Height	*
Power (min)	6.54W
Power (max)	6.816W
System Support	Windows 7 /8 /8.1 /10 /11
	Windows Server 2008 /2012 /2016 /2019 /2022
	Deepin 15.11 /20 /20.6 /20.9
	VMware ESXi 6.5 /6.7 /7.0
	Galaxy Unicorn V10 SP1 /V10
	NeoKylin 7.6
	RHEL/CentOS 7.3 /7.6 /7.9 /8.2 /8.3
	Ubuntu 16.04.3 /18.04.5 /20.04.1 /22.04.2
	SUSE 12.5 /15.4
	FreeBSD 12.2 /13.2
	ZTE New Fulcrum 5.0.5 /3.2.2
	Tongxin UOS 20
	Asianux ServerV7.0
	Zhongke Fangde desktop operating system 4.0
	Zhongke Fangde server operating system
	Emind OS
	Mikrotik
	iKuai router

Bus Type	OCP3.0 SFF
Data rate per port	1/10Gbps
Connector	4*10G SFP+
Power Supply	OCP 3.0

Technical Features

Protocol Support	IEEE 802.3ae 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 (EEE)
PXE	Yes
DPDK	Yes
WoL	Yes
iSCSI	No
Jumbo Frames	Yes
FCoE	No
SR-IOV	Yes
IEEE 1588 PTP	Yes
IPsec	No
Jumbo data frame MAX	9.7KB
ESD_Contact discharge	±8KV (Class B)
ESD_Air discharge	±4KV (Class C)

ESD test classification

Class A: Normal performance within the limits specified by the manufacturer, commissioner, or purchaser.

Class B: Temporary loss or reduction of function or performance, but can be recovered by itself after the disturbance stops, without operator intervention;

Class C: Temporary loss or degradation of function or performance that requires operator intervention to restore;

Class D: irrecoverable loss of function or performance degradation due to damage to device hardware or software, or loss of data.

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
Certification	FCC, CE, RoHS

Physical Features

PCB Size(mm)	115*76*1.6
Package Size(mm)	179*150*30
Weight(g)	*

LED Indicators

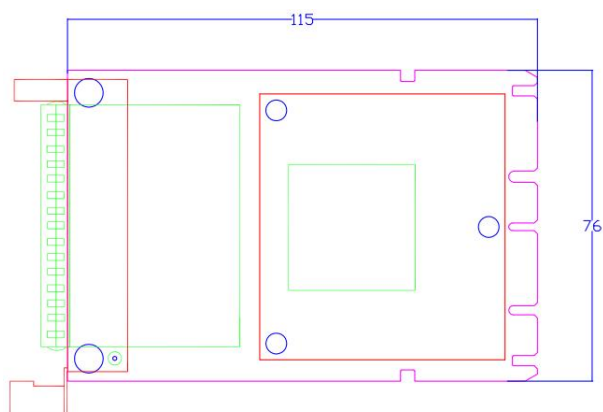
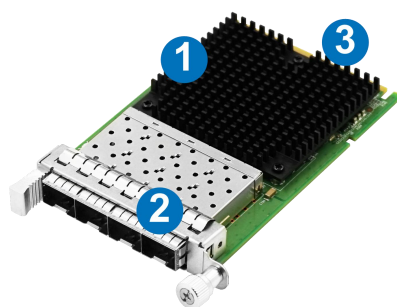
1Gbps	LINK	Green Link + Green Link
	ACT	Green Blink + Green Blink
10Gbps	LINK	Green Link + Green Link
	ACT	Green Link + Green Blink

Order Information

P/N	Description
LRES3007PF-OCP	OCP3.0 Quad-port 10G SFP+ Ethernet Network Adapter (Intel XL710)

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

Product Structure



1. Heat sink
2. 4*10G SFP+ Connector
3. OCP 3.0 interface

PS: The picture is for reference, and the actual product shall prevail.

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, 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 just referenced only. There is no infringement meaning. If there is any important and sensitive content related, please contact our Lianrui company, we'll delete them, Thank you.

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