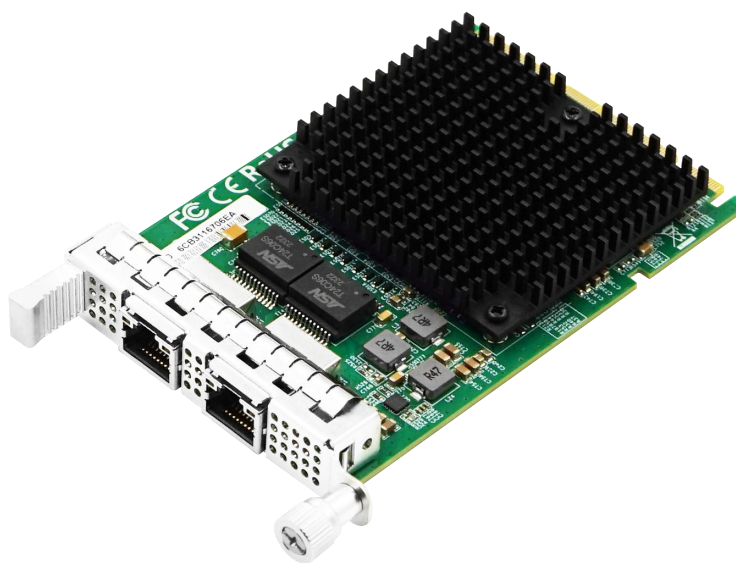


## LRES3021PT-OCP

—OCP 3.0 Dual-Port 10G Copper Ethernet Network Adapter (Intel X710)

### Overview



LRES3021PT-OCP is an OCP3.0 SFF Dual-port copper cable 10G ethernet network adapter independently developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Intel X710 main control solution. This adapter is mainly designed for servers and their application equipment, and is also suitable for common servers.

LRES3021PT-OCP is developed based on Intel 10G multi-rate Ethernet MAC+PHY (Media Access Controller and Physical Interface Transceiver) controller, adding 2.5G and 5.0 NBae-T support for G and adaptive link rates. In addition to the self-adaptive capability of up to five different rates, the power consumption under full load is only 7.5W, which brings more excellent performance to the application of the network card.

## Key Features

1. An Intel solution OCP3.0 SFF structure of the Dual-port 10G Copper Ethernet network adapter
2. With a rate of 10G/5G/2.5G/1000M/100M.

## Specifications

Controller	Intel X710	
Cable medium	Copper	
Fiber Type	CAT-5	50M(10Gbps);100M(5Gbps);
	CAT-6	50M(10Gbps);100M(5Gbps);
	CAT-6e	50M(5Gbps);
Bracket Height	SFF	
Power (min)	3.696 W	
Power (max)	7.14 W	
System Support	Windows 8 /8.1 /10 /11	
	Windows Server 2012 /2016 /2019 /2022	
	RHEL/CentOS 7.3 /7.6 /7.9 /8.3	
	Deepin 20 /20.6	
	Ubuntu 16.04.3 /18.04.5 /20.04.1	
	SUSE 15.4	
	FreeBSD 13.2 /12.2	
	ZTE New Fulcrum 3.2.2 /5.0.5	
	Asianux Server V7.0	
	Galaxy Unicorn V10 /V10 SP1	
	NeoKylin 7.6	
	Zhongke Fangde desktop operating system 4.0	
	Zhongke Fangde server operating system	
	Tongxin UOS 20	
	Emind	
	NeoKirin 0.7.5	
	VMware ESXi 6.7 /7.0	
	Mikrotik	
	iKuai router	

Bus Type	OCP3.0 SFF
Data rate per port	100/1000Mbps/2.5/5/10Gbps
Connector	2*10G RJ45
Power Supply	OCP

## Technical Features

Protocol Support	IEEE 802.3an 10GBASE-T Ethernet IEEE 802.3bz 2.5/5GBASE-T Ethernet IEEE 802.3ab 1000BASE-T Ethernet IEEE 802.3u 100BASE-TX Ethernet IEEE 802.3az - Energy Efficient Ethernet (EEE) IEEE 802.3z IEEE 802.1Q VLANs IEEE 802.3x IEEE 1588
PXE	Yes
DPDK	Yes
WoL	No
iSCSI	No
Jumbo Frames	Yes
IEEE 1588	Yes
SR-IOV	Yes
Jumbo data frame MAX	9.7KB
ESD_Contact discharge	±6KV (Class C)
ESD_Air discharge	±8KV (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℃ to 50℃ (-32 ℉ to 122 ℉)
Storage Temperature	-40℃ to 70℃ (-40℉ to 158℉)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 ℃

Certification	FCC, CE, RoHS
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## Physical Features

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

## LED Indicators

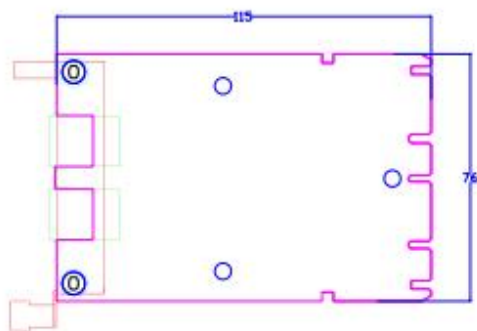
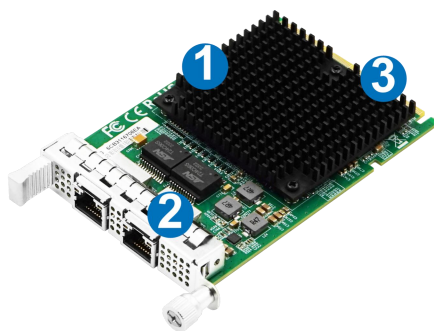
100/1000Mbps/ 2.5/5Gbps	LINK	Orange Link
	ACT	Orange Blink
10Gbps	LINK	Orange Link + Green Link
	ACT	Orange Blink + Green Link

## Order Information

P/N	Description
LRES3021PT-OCP	OCP 3.0 Dual-Port 10G Copper Ethernet Network Adapter (Intel X710)

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

## Product Structure



1. Heat sink
2. 2\*10G RJ45 Connector
3. Golden finger 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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The logo for LR-LINK, featuring the letters 'LR' in a large, bold, blue font, followed by '-LINK' in a smaller, bold, blue font.

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