

## LRES3042PF-OCP

—OCP 3.0 Dual-Port 40G QSFP+ Ethernet Network Adapter (Intel XL710)

### Overview



LRES3042PF-OCP is a dual-port 40G Ethernet network adapter developed based on the Intel XL710 controller chip. The product's physical board size conforms to the OCP 3.0 design specifications and features a small form factor (SFF) panel.

LRES3042PF-OCP offers dual-port 40GbE link rates, capable of bundling multiple ports together to achieve fault tolerance and redundancy, ensuring network performance and expanding bandwidth. It can perform real-time self-detection and reroute communications from a faulty port to other members of the same group, ensuring uninterrupted high-performance communication. In addition to stateless offloading, it can distribute network traffic across CPU cores, enhancing network throughput and freeing up CPU resources to process other applications. LRES3042PF-OCP is the ideal solution for deploying multiple networks and for deploying critical network applications and environments on high-performance servers.

## Key Features

1. An Intel solution OCP3.0 SFF structure of the dual-port optical fiber 40G Ethernet network adapter
2. With a rate of 40G
3. It can enhance DPDK to be more efficient and flexible in packet forwarding and packet processing.

## Specifications

Controller	Intel XL710
Cable medium	Optical Fiber
Fiber Type	40GBASE-SR / 40GBASE-LR
Bracket Height	SFF
Power (min)	4.464W
Power (max)	4.572W
System Support	Windows 7 /8 /8.1 /10 /11
	Windows Server 2008 /2012 /2016 /2019 / 2022
	RHEL/Centos7.3 /7.6 /7.9 /8.3
	Deepin 15.11 /20 /20.6 /20.9
	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 3.2.2 / 5.0.5
	Asianux Server v7.0
	Galaxy Unicorn v10 SP1
	NeoKylin 7.6
	Zhongke Fangde desktop operating system 4.0
	Zhongke Fangde server operating system
	Tongxin UOS 20
	Emind OS
	VMware ESXi 6.5 / 6.7 /7.0
	Mikrotik
	iKuai router
	OpenKylin 0.7.5

Bus Type	OCP3.0 SFF
Data rate per port	40Gbps
Connector	2*40G QSFP+
Power Supply	OCP3

## Technical Features

Protocol Support	IEEE802.3ba 40 Gigabit Ethernet IEEE 802.3x Full Duplex and flow control IEEE 802.3BD IEEE 802.1AS IEEE 802.1Q VLAN IEEE 802.3AD IEEE 802.3az - Energy Efficient Ethernet (EEE) IEEE 802.3ap
PXE	Yes
DPDK	Yes
WoL	No
iSCSI	Yes
Jumbo Frames	Yes
IEEE 1588	Yes
SR-IOV	Yes
VMDq	Yes
UEFI	Yes
NCSI	Yes
Jumbo data frame MAX	9.5KB
ESD_Contact discharge	±6KV

## 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(L x W x H)	115 x 76 x 1.6mm
Package Size(L x W x H)	179 x 150 x 30mm
Weight(g)	*

## LED Indicators

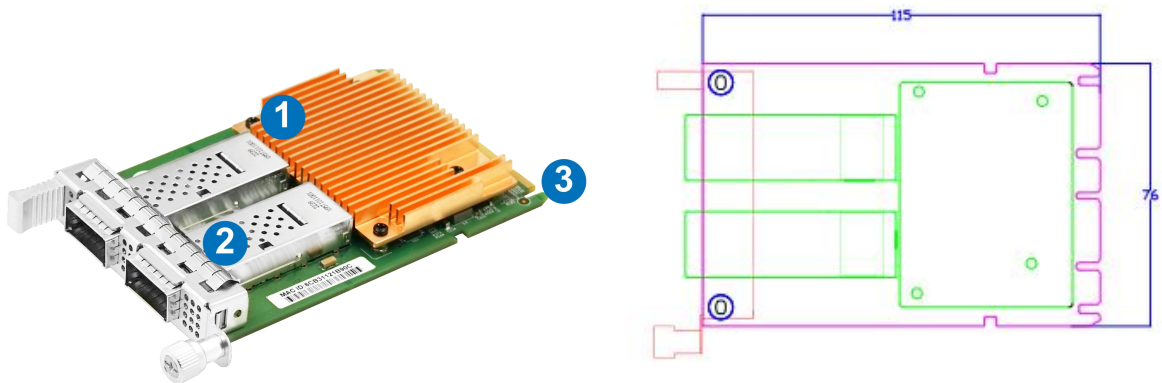
40Gbps	LINK	Orange Link + Green Link
	ACT	Orange Link + Green Blink

## Order Information

P/N	Description
LRES3042PF-OCP	OCP 3.0 Dual-Port 40G QSFP+ 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. 2\*40G QSFP+ 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>

## 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, 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.

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