

## LRES3017PF-OCP

— OCP3.0 Dual-port 25G SFP28 Ethernet Network Adapter (Intel XXV710)

### Overview



LRES3017PF-OCP is an OCP3.0 SFF dual optical port 25G ethernet network adapter developed by Shenzhen Lianrui Electronics Co., Ltd. based on the intel XXV710 master control solution.

The dual ports of the adapter can simultaneously support the self-adaptation of 1/10/25G link rate to meet the flexible use in network environments with different rate requirements, and provide reliable performance in flexible LAN and SAN networks.

LRES3017PF-OCP is mainly designed for servers and high-end network communication equipment. It can bundle and converge multiple ports at the same time into groups to achieve fault tolerance and redundancy to ensure network performance and expand network bandwidth. It can implement real-time self-detection and realize faulty ports Communications are routed to other members of the same group to continue running for uninterrupted high-performance communications. This adapter is becoming an ideal solution for deploying multiple networks and deploying network applications and environments on high-performance servers.

Based on Intel Intel 25G Ethernet MAC+PHY (media access controller and physical interface transceiver) dual-port controller, it has excellent compatibility with various operating systems and meets customers' needs for using networks with multiple operating systems.

The OCP3.0 SFF structure design adopted by the LRES3017PF-OCP Ethernet network adapter can adapt to the needs of the new and old server markets for network traffic and data distribution, processing, virtualization and big data computing in the current and long-term future.

## Key Features

1. An Intel solution OCP3.0 SFF structure of the dual-port optical fiber 25G Ethernet network adapter
2. With a rate of 1 /10 /25G
3. It can enhance DPDK to be more efficient and flexible in packet forwarding and packet processing.

## Specifications

Controller	Intel XXV710
Cable medium	Optical Fiber
Fiber Type	25GBase-SR、25GBase-LR、25GBase-Cu 10GBase-SR、10GBase-LR、10GBase-Cu 1GBase-SR、1GBase-LR、1GBase-Cu
Bracket Height	SFF
Power(min)	6.732W
Power(max)	10.968W
System Support	Windows 8 /8.1 /10 /11
	Windows Server 2012 /2016 /2022
	Deepin 15.11 /20 /20.6 /20.9
	VMware ESXi 6.7 /7.0
	Galaxy Unicorn v10 SP1
	Galaxy Unicorn v10
	NeoKylin 7.6
	RHEL/Centos7.3 /7.6 /7.9 /8.2 /8.3
	Ubuntu 16.04.3 /18.04.5
	Ubuntu 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 Server v7.0
	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 /10 /25 Gbps
Connector	2 * 25G SFP28
Power Supply	OCP

## Technical Features

Protocol Support	IEEE P802.3by 25 Gb/s IEEE 802.11ae 10GBase-X IEEE 802.3z 1000BASE-X IEEE 802.3x Full Duplex and flow control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3z IEEE 802.1Q VLANs IEEE 802.3x IEEE 1588 PTP v1 & v2
PXE	Yes
DPDK	Yes
WoL	No
Jumbo Frames	Yes
VMDq、SR-IOV	Yes
iSCSI	Yes
UEFI	Yes
NCSI	Yes
SACN CHAIN	Yes
1588 PTP	No
Jumbo DataFrame Max	9.5KB
ESD_Contact discharge	±8KV(Class C)
ESD_Air discharge	±15KV(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 ℉)
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Storage Temperature	-40 ℃ to 70 ℃ (-40 ℉ to 158 ℉)
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 ℃
Certification	FCC, CE, RoHS

## Physical Features

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

## LED Indicators

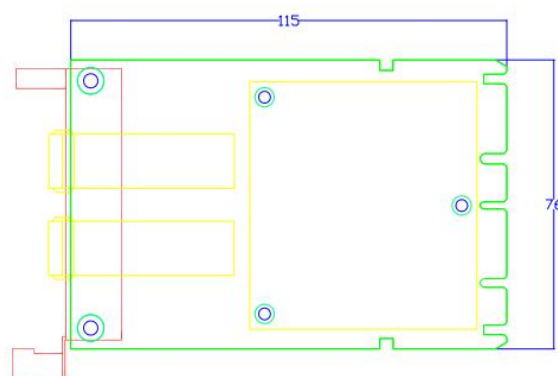
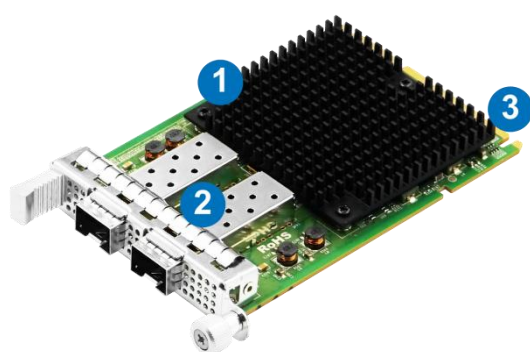
1/10G	Connection Status	Orange Link + Green Blink
	Transfer status	Orange Link + Green Blink
25G	Connection Status	Green Link + Green Blink
	Transfer status	Green Link + Green Blink

## Order Information

P/N	Description
LRES3017PF-OCP	OCP3.0 Dual-port 25G SFP28 Ethernet Network Adapter (Intel XXV710)

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. 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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