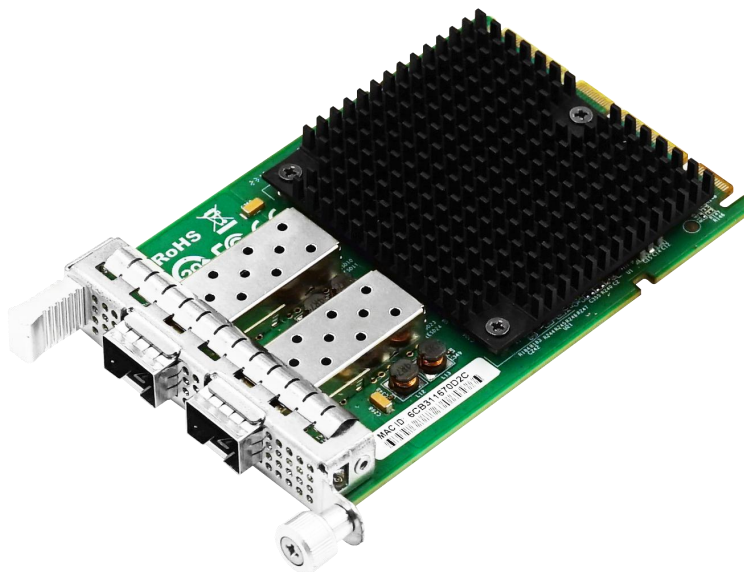


LRES3012PF-OCP

— OCP3.0 Dual-port 10G SFP+Ethernet Network Adapter(Intel 82599)

Overview



LRES3012PF-OCP is a PCI Express v2.0 OCP 3.0 dual-port fiber ethernet network mezzanine card developed by Shenzhen Lianrui Electronics Co., Ltd. on the basis of Intel master control scheme, using a physical board size in accordance with OCP 3.0 design specifications, small size (SFF) panel. The fit card meets the needs of the next generation of data centers by providing features for server and network virtualization technologies. Provide reliable performance on flexible LAN and SAN networks. The network adapter has a flexible dual-port 10GbE link rate on a OCP3.0 SFF structure.

This network adapter enables fault tolerance and redundancy in groups through multiple port bundles at the same time to guarantee network performance and extend network bandwidth, enables real-time self-detection, and enables the routing of traffic from failed ports to other members of the same group to continue to operate for uninterrupted, high-performance communication. In addition to stateless uninstall, the adaptive card can also be distributed over network traffic to the CPU core, improving the throughput of the network.

The LRES3012PF-OCP server adapter is designed to perform well in multiprocessor systems. It is used to meet the needs of the current and longer-term server market for network traffic and data se throughout, processing and virtualization and big data computing, cloud computing, etc.

Key Features

1. Small size (SFF) panels in accordance with OCP 3.0 design specification.
2. It supports fault tolerance and redundancy by bundling and aggregating multiple ports to ensure network performance and expand network bandwidth. It can implement real-time self detection and route the communication from the fault port to other members in the same group to continue running to achieve uninterrupted high-performance communication.
3. In addition to stateless offloading, the adapter card can also distribute the network traffic to the CPU core, which improves the network throughput.
4. It is applied to meet the needs of current and long-term server market for network traffic and data diversion, processing and virtualization, big data computing and cloud computing.

Specifications

Controller	Intel 82599	
Cable medium	Optical Fiber	
Fiber Type	OM2	5M(10Gbps)
Bracket Height	SFF	
Power (min)	6.276W	
Power (max)	6.48W	
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	
	NeoKylin 7.6	
	RHEL/CentOS 7.3 /7.6 /7.9 /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 Server V7.0	
	Zhongke Fangde desktop operating system 4.0	
	Zhongke Fangde server operating system	
	Emind OS	

	OpenKylin 0.7.5
	Mikrotik
	iKuai router
	Hi-Spider Router
Bus Type	OCP3.0 SFF
Data rate per port	10Gbps
Connector	2*10G SFP+
Power Supply	OCP

Technical Features

Protocol Support	IEEE802.3ae 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/UEFI	No
DPDK	Yes
WoL	No
iSCSI	Yes
Jumbo Frames	Yes
FCoE	Yes
IEEE 1588	Yes
SR-IOV	Yes
IPsec Sharing	Yes
Jumbo data frame MAX	9.5KB
NCSI	Yes (Firmware version: 0X800006da)
ESD	±8KV

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

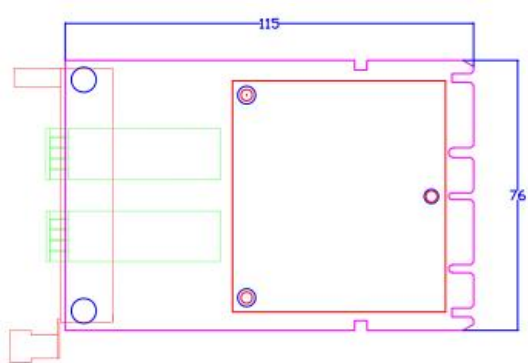
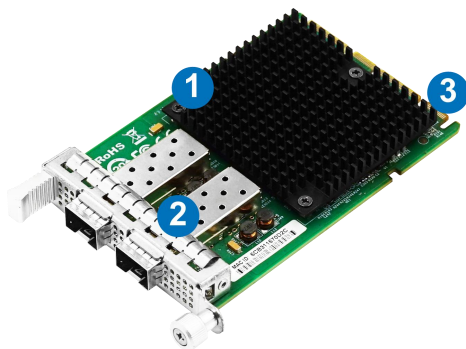
1Gbps	LINK	Green Blink + Orange Link
	ACT	Green Blink + Orange Link
10Gbps	LINK	Green Link + Green Link
	ACT	Green Blink + Green Link

Order Information

P/N	Description
LRES3012PF-OC	OCP3.0 Dual-port 10G SFP+Ethernet Network Adapter(Intel 82599 Based)

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

Product Structure



- 1. Heat sink
- 2. 2*10G SFP+ 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: <https://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:

<https://www.lr-link.com/product.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.

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

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