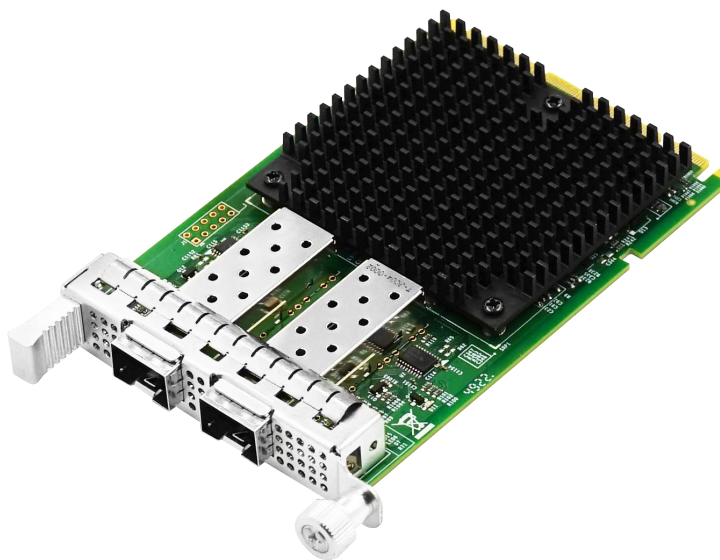


LRES3024PF-OCP

—OCP 3.0 Dual-port 10G SFP+ Ethernet Network Adapter (Net-swift SP1000)

Overview



LRES3024PF-OCP is a dual optical port 10G ethernet adapter with OCP3.0 SFF structure developed by Shenzhen Lianrui Electronics Co., Ltd. based on the Net-swift SP1000 master control solution. The dual-port of the network adapter can simultaneously support the self-adaptation of 1/10G link rate. It can be used flexibly in network environments with different speed requirements, and can provide reliable performance in flexible LAN and SAN networks.

The adapter card has domestic independent intellectual property rights of the Ethernet optical network card (LRES3024PF-OCP), with local area network performance acceleration, network security, network integration, network virtualization, data center bridging and other functions, the transmission bandwidth of a single port is 10Gbps, the number of logic gates of the main controller reaches 18 million, and the on-chip SRAM capacity reaches 25Mbit. Primarily designed for servers and high-end equipment.

The adapter card is based on the SP1000 10G Ethernet MAC+PHY (media access controller and physical interface transceiver) dual-port controller, which meets the needs of customers for using the network with multiple operating systems.

LRES3024PF-OCP This server adapter card is used to meet the needs of new and old server

Key Features

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

Specifications

Controller	Net-swift SP1000
Cable medium	Optical Fiber
Fiber Type	10GBase-SR、10GBase-LR、10GBase-ER、10GBase-ZR、10GBase-LRM、10GBase-Cu
	1GBase-SR、1GBase-LR
Bracket Height	SFF
Power (min)	5.712W
Power (max)	6.144W
System Support	Windows 7 /8 /8.1 /10 /11
	Windows Server 2012 /2016
	Windows Server 2019 /2022
	RHEL/CentOS 7.3 /7.6 /7.9 /8.2 /8.3
	Deepin 20 /20.6
	Ubuntu 16.04.3 /18.04.5
	SUSE 12.5
	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 6.7
	iKuai router
Bus Type	OCP3.0 SFF

Data rate per port	1/10Gbps
Connector	2*10G SFP+
Power Supply	OCP

Technical Features

Protocol Support	IEEE 802.3ae 10GBase-X IEEE 802.3z 1000BASE-X Gbit/s Ethernet IEEE 802.3x Full Duplex and flow control IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3ap IEEE 802.3as IEEE 802.3bc IEEE 802.3bd IEEE 802.1p IEEE 802.1Q VLAN IEEE 802.1Qau IEEE 802.1Qaz IEEE 802.1Qbb IEEE 802.1Qbg IEEE 802.1Qbh IEEE 802.1X IEEE 802.1AE IEEE 802.1AEbn IEEE 802.1AS IEEE 802.1AX IEEE 802.3aq IEEE 802.3an
PXE	Yes
RDMA	No
DPDK	Yes
WoL	No
iSCSI	No
Jumbo Frame	Yes
SR-IOV	Yes
Jumbo DataFrame Max	9.5KB
ESD_Contact discharge	±8KV (Class B)
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 70℃ (-40°F to 158°F)
Storage Temperature	-65 ℃ to 140℃ (-85°F to 284°F)
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

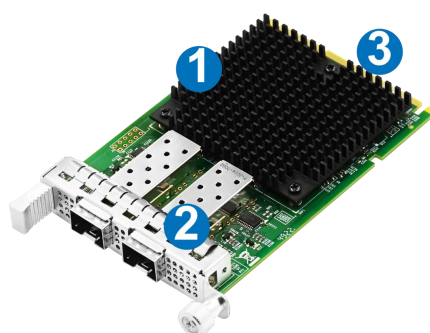
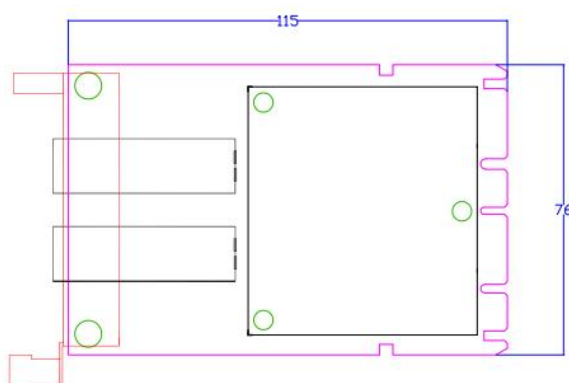
1Gbps	Connection Status	Orange Link + Blue Blink
	Transfer status	Orange Link + Blue Link + Green Blink
10Gbps	Connection Status	Green Link + Blue Link
	Transfer status	Green Link + Blue link + Green Blink

Order Information

P/N	Description
LRES3024PF-OCP	OCP 3.0 Dual-port 10G SFP+ Ethernet Network Adapter (Net-swift SP 1000)

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: <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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