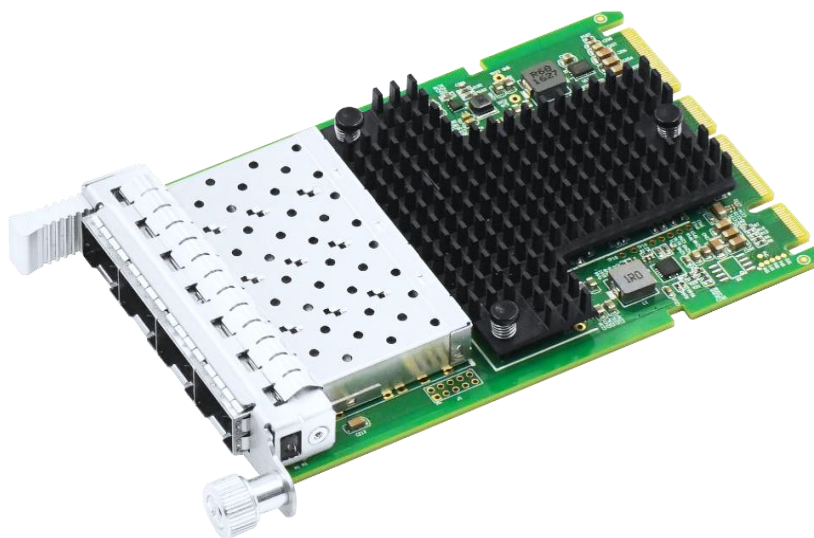


LRES3031PF-OCP

—OCP 3.0 Quad Port 10G SFP+ Ethernet Network Adapter (MUCSE N10)

Overview



LRES3031PF-OCP is a quad-port optical fiber network adapter with OCP 3.0 SFF structure developed by Shenzhen Lianrui Electronics Co., Ltd. Based on the RNP N10 solution of the MUCSE controller. It adopts the industry-leading intelligent network security control chip, has complete independent intellectual property rights, and realized a high degree of integration of network and security in product performance.

Functionlly: each port of the adapter supports 10G and 1G access at different rates to meet the diverse needs of customers. Unique reconfigurable processor core technology supports fast processing of offloading of various network protocols, including RSS, TSO, GRO, TCO, RCO, and IP/TCP, IP/UDP checksum offloading, etc., with MAC\VLAN\TCP_SYN and other data packet filtering and redirection functions of these data packets to improve the CPU service processing capability.

In addition, the unique network protection technology of the adapter supports ciphertext streaming transmission between ports, and has a guard-style protection function to achieve network attack isolation and protection. It is widely used in ordinary servers and high-end server equipment. In the same category of server equipment, this adapter performs better on domestic CPU platform equipment.

Key Features

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

Specifications

Controller	MUCSE RNP N10
Cable medium	Optical Fiber
Fiber Type	10GBASE-SR / 10GBASE-LR / 10GBASE-Cu 1GBASE-SR / 1GBASE-LR / 1GBASE-Cu
Bracket Height	SFF
Power Consumption	11.68W
System Support	RHEL / Centos 7.3 / 7.6 / 7.9 / 8.2 / 8.3
	Deepin 20/20.6
	Ubuntu 20.04.3
	ZTE New Pivot 3.2.2 / 5.0.5
	Red Flag Asianux V7.0
	NeoKylin-Desktop-7.0.0.iso
	NFS-CHINA V4.0
	Emind
Bus Type	OCP3.0 SFF
Data rate per port	10Gbps
Connector	4*10G SFP+

Technical Features

Protocol Support	IEEE 802.3ae 10 Gigabit Ethernet over fiber IEEE 802.3z Gigabit Ethernet IEEE 802.3x Full Duplex and flow control IEEE 802.1AS / IEEE 802.1Q VLAN IEEE 802.3AD / IEEE 802.3ad IEEE 802.3az - Energy Efficient Ethernet (EEE) IEEE 802.1P / IEEE 802.3ac
PXE	Yes
DPDK	Yes
WoL	No

iSCSI	No
Jumbo Frames	Yes
FCoE	No
Network Virtualization	VEB\VLAN\QinQ\VxLAN\NVRGE

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
Weight(g)	103.4

LED Indicators

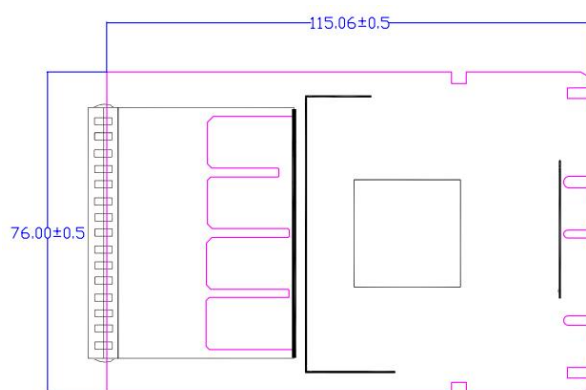
10Gbps	LINK	Green Link + Green Link
	ACT	Green Link + Green Blink

Order Information

P/N	Description
LRES3031PF-OCF	OCF 3.0 Quad-Port 10G SFP+ Ethernet Network Adapter (MUCSE Chip Based)

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

Product Structure



1. Heat sink
2. 4*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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