LR-LINK®
Professional NIC Solution Supplier

LRES3027PF-OCP

OCP3.0 Quad-port 25G Ethernet Network Adapter

FC CE RoHS

Key Features:

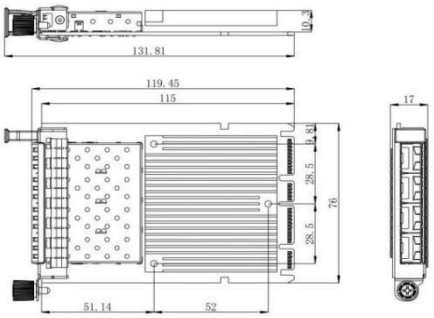
-PCI Express 4.0 x16
-Quad-port SFP+ interfaces
-Support 25/10/1Gbps
-Support RDMA(iwARP/RoCEv2)
-Support SR-IOV
-Support NCSI
-Support SMbus monitor temperature
-Support ScanChain
-Support Jumbo frames 9.2K

Overview

LRES3027PF-OCP is a high-performance quad-port 25G Ethernet network adapter independently developed by Linkreal Electronics Co ., Ltd., based on the Intel®E810 . It supports high-speed optical transmission and fully complies with the OCP 3.0 specification. The card adopts a compact small form factor (SFF) design, making it ideal for high-density data center deployments .

LRES3027PF-OCP supports hot-swapping and is compatible with a wide range of 25G and 10G optical transceivers, DAC, and AOC cables . Utilizing a PCIe Gen4 x16 interface, the adapter delivers high bandwidth and low latency, ideal for next-generation data centers and cloud infrastructure. It supports advanced networking features including SR-IOV, RDMA(iWARP/ RoCEv2), VXLAN/ NVGRE offloading, and Data Center Bridging (DCB), significantly enhancing performance in virtualized, distributed, and AI/ HPC environments .

LRES3027PF-OCP is built for high-density server deployments and is well-suited for data centers, cloud platforms, enterprise networks, and AI/ machine learning clusters .



Dimensions(unit:mm)

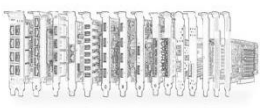
Product Specifications	
Model	LRES3027PF-OCP
Controller	Intel E810
Adapter Type	OCP 3.0
Form Factor	SFF
Host Connector	PCIe 4.0 x16
Connectors	SFP28
Port	Quad
Link Speed	25/ 10/ 1Gbps
Protocol Support	IEEE 802.3by IEEE 802.3ae IEEE 802.3ad IEEE 802.3x IEEE 802.3z IEEE 802.1Q IEEE 802.1Qbb IEEE 802.1Qaz IEEE 802.1p IEEE 802.3z IEEE 1588v2
Functional Support	
PXE/UEFI	Yes
NCSI	Yes
WoL	Yes
SR-IOV	Yes
1588 PTP	Yes
SMbus	Yes
FRU	Yes
ScanChain	Yes
Hot Swap	Yes
RDMA	iWARP/RoCEv2
Jumbo Frames	9..2KB

Power Consumption		
DAC	*	
Optical Transceiver	14.35 (Max)	
LED Indicators		
LED Type	Color/Behavior	Note
Link/Speed	Off	No link
	Amber	Link at lower speed
	Green	Link at 25 Gbps
Activity	Off	No Activity
	Green(blink)	Link up(traffic flowing)
Supported Physical Layer Interfaces		
Type	25Gbps	10Gbps
DACs	25GBASE-CR	SFP+10GbE DAC
Optics and AOCs	25GBASE-SR/LR	10GBASE-SR/LR
Supported Systems		
OS	• Windows • Windows Server • RHEL/CentOS • Ubuntu • Fusion OS • Kylin OS • Debian • SUSE	• Deepin • VMware ESXi • NewStart OS • UOS • Fangde OS • OpenEuler • iKuai Router OS • Roky
Technical Specifications		
Operating Temperature	-10°C to 60°C	
Storage Temperature	-40°C to 70°C	
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 °C	
Certification	FCC, CE, RoHS	

Physical Properties	
PCB Size	115*76mm
Package Size	179*150*30mm
Packing List	
Internet Network Adapter	*1
Product Warranty Card	*1
Packaging	Carton + Anti-static bag

*This document contains information about products, services, and/or processes under development. All information provided here is subject to change without prior notice and the actual product shall prevail.

Linkreal Co., Ltd.

14F T10 Bldg., Sino-Ocean New World, Longcheng Street, Longgang District Shenzhen China 518172

+86 (0) 755-84507909
service@lr-link.com
www.lr-link.com