

LRES3026PF-OCP

OCP3.0 Dual-port 100G Ethernet Network Adapter



Overview

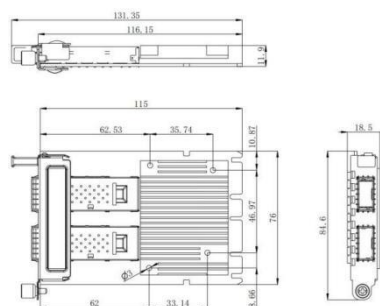
Key Features:

- PCI Express 4.0 x16
- Quad-port QSFP28+ interfaces
- Support 100/50/25/10Gbps
- Support RDMA(RoCEv2/iwARP)
- Support SR-IOV
- Support NCSI
- Support SMBus monitor temperature
- Support ScanChain
- Support Jumbo frames 9.7K

The LRES3026PF-OCP is a dual-port 100GbE PCIe Ethernet adapter independently developed by Linkreal Co., Ltd., based on the Intel E810-CAM2 controller. Designed in compliance with the OCP 3.0 Small Form Factor (SFF) specification, it features two QSFP28 optical ports supporting up to 200Gbps total bandwidth for high-speed optical transmission.

This adapter supports key features including Application Device Queues (ADQ) for improved QoS, Dynamic Device Personalization (DDP) for enhanced packet classification, and RDMA (RoCEv2 and iWARP) to enable low-latency, CPU-bypassing data transfers. In addition, hot-plug support simplifies system expansion and maintenance while reducing operational downtime.

The LRES3026PF-OCP is optimized for use in cloud networking, storage systems, AI/ ML workloads, data analytics, and high-performance computing (HPC) environments.



Dimensions(unit:mm)

Product Specifications	
Model	LRES3026PF-OCF
Controller	Intel E810
Adapter Type	OCF 3.0
Form Factor	SFF
Host Connector	PCIe4.0 x16
Connectors	QSFP28
Port	Dual
Link Speed	100/50/25/ 10Gbps
Protocol Support	IEEE 802.3 IEEE 802.3Qaz IEEE 802.3x IEEE 802.3by IEEE 802.1Q IEEE 802.1Qbb IEEE 802.1Qaz IEEE 802.1p IEEE 802.3cd 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..7KB

Power Consumption		
DAC	*	
Optical Transceiver	31.24 (Max)	
LED Indicators		
LED Type	Color/Behavior	Note
Link/Speed	Off	No link
	Amber	Link at lower speed
	Green	Link at 100 Gbps
Activity	Off	No Activity
	Green(blink)	Link up(traffic flowing)
Supported Physical Layer Interfaces		
100GBASE-CR2	50GBASE-CR	
100GBASE-CR4	50GAUI-1	
CAUI - 4	50GAUI-2 LAUI-2	
100GAUI - 2	25GBASE-CR	
100GAUI - 4	SFP+ 10GbE DAC	
100Gb - SR/SR4/ LR/ LR4	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 • FreeBSD	
Technical Specifications		
Operating Temperature	0°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.

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