

LRES3025PF-OCF

OCP3.0 Dual-port 100G Ethernet Network Adapter V3



Key Features:

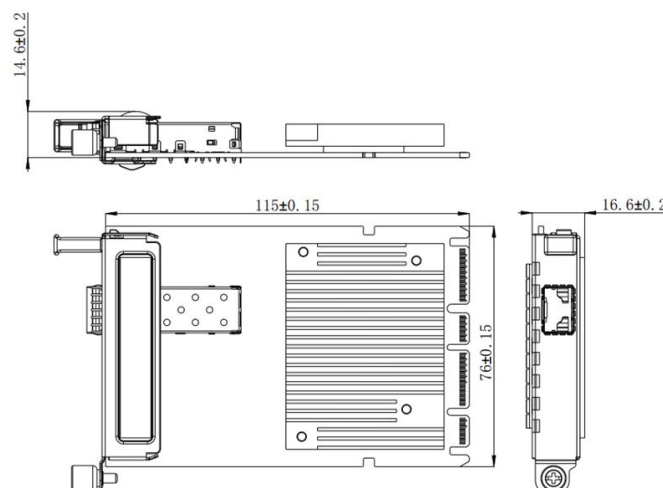
- PCI Express 4.0 x16
- Single port QSFP28 interfaces
- OCP3.0 SFF
- Support 100/50/25/10Gbps
- Support RDMA(RoCEv2/iWARP)
- Support 1588 PTP

Overview

The LRES3025PF-OCF is a single port 100GbE PCIe Ethernet adapter independently developed by Linkreal Co., Ltd based on the Intel E810 controller. Designed in compliance with the OCP 3.0 Small Form Factor (SFF) specification, it features a QSFP28 optical port 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 LRES3025PF-OCF 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	LRES3025PF-OCP
Controller	Intel E810
Adapter Type	OCF 3.0
Form Factor	SFF
Host Connector	PCIe4.0 x16
Connectors	QSFP28
Port	Single
Link Speed	100/50/25/10Gbps
Protocol Support	IEEE 802.3 IEEE 802.3x IEEE 802.3by IEEE 802.3cd IEEE 802.1Q IEEE 802.1p IEEE 802.1Qaz IEEE 802.1Qbb IEEE 802.1Qbg (Edge Virtual Bridging, EVB) IEEE 1588v2 (Precision Time Protocol, PTP)
Functional Support	
PXE/UEFI	Yes
NCSI	Yes
WoL	Yes
SR-IOV	Yes
1588 PTP	Yes
SMbus	Yes
FRU	Yes
ScanChain	Yes
Hot Plug	Yes
Jumbo Frames	9.7KB

Physical Properties	
Product Size	115*76*1.6mm
Package Size	179*150*30mm
Packing List	
Internet Network Adapter	*1
Product Warranty Card	*1
Packaging	Carton + Anti-static bag

Power		
DAC	16.6W(Max)	
LED Indicators		
LED Type	Color/Behavior	Note
Link	Off	No link
	Amber	Link at lower speed
	Green	Link at 100Gbps
Activity	Off	No Activity
	Green(blink)	Linkup(traffic flowing)
Supported Physical Layer Interfaces		
100GBASE-CR2, 100GBASE-CR4, 50GBASE-CR, 25GBASE-CR, SFP+ 10GbE DAC, CAUI - 4, 100GAUI - 2, 100GAUI - 4, 100Gb - SR/SR4/LR/LR4, 50GAUI-1, 50GAUI-2 , LAUI-2, 25GBASE-SR/LR,10GBASE-SR/LR		
Supported Systems		
OS	• Windows • Windows Server • Deepin • VMware ESXi • RHEL/CentOS • Ubuntu • SUSE • Debian • Kylin OS	• NeoKylin OS • OpenKylin OS • NewStart OS • UOS • FangdeOS • iKuai Router • Fusion OS • FreeBSD • OpenEuler
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	

*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.

