

LRES8030PF-BP

PCIe x4 1G Dual-port Bypass Adapter

FC CE RoHS



Key Features:

- PCI Express 2.0 x4
- 2 * SFP
- Support 1000Mbps
- normal, bypass and watchdog modes
- Support SR-IOV
- Support 1588 PTP

Overview

The LRES8030PF-BP is a PCIe 2.0 x4 dual-port fiber Gigabit Ethernet Bypass network adapter, independently developed by Linkreal Co., Ltd. based on the Intel® I350 controller. It is designed for in-line network systems to ensure uninterrupted network connectivity in case of system failures.

The adapter supports three operating modes: Normal, Bypass, and Watchdog. In Normal mode, both ports operate independently. In Bypass mode, the network ports are physically linked, automatically forwarding packets between ports when the system is powered off or fails, maintaining continuous network traffic. Watchdog mode actively monitors system health, ensuring automatic failover in the event of hardware, software, or configuration failures, preventing communication disruptions.

LRES8030PF-BP is widely used in network security appliances, server clusters, and data center networks. It enhances network reliability and availability, ensures safe maintenance and upgrades, and guarantees stable inter-network communication even during unexpected system faults.

LR/SR

-SR: Fiber Gigabit Ethernet 1000Base-SX

Independently Fiber Gigabit Ethernet channel/s support Gigabit Ethernet 1000Base-SX(850nm MMF)

Small Form Factor (SFF) LC Connectors



-LR: Fiber Gigabit Ethernet 1000Base-LX

Independently Fiber Gigabit Ethernet channel/s support Gigabit Ethernet 1000Base-LX(1310nm SMF)

Small Form Factor (SFF) LC Connectors

Specifications

Model	LRES8030PF-BP
Controller	Intel I350
Adapter Type	Bypass Adapter
Form Factor	Half Height Half Length
Host Connector	PCIe2.0 x4
Connectors	SFP
Port	Dual
Link Speed	1000Mbps
Power consumption(W)	Max: 3.78 Min:3.70
Protocol Support	IEEE802.3az - Energy Efficient Ethernet (EEE) IEEE 1588, 802.1as IEEE 802.3/1000BASE-T
PXE/UEFI	No
SR-IOV	Yes
1588 PTP	Yes
Jumbo Frames	9.2KB

LED Indicators

LED Type	Color/Behavior	Note
Link/Activity	Off	No Link
	Amber	Link
	Amber(blink)	Link up(traffic flowing)
Bypass	Off	No Bypass
	Green	Bypass mode

Supported Operating System

Windows Windows Server Deepin VMwareESXi RHEL/CentOS Ubuntu Fusion OS
Kylin OS NewStart OS UOS Fangde OS OpenEuler Rocky OS Debian OS iKuai Routing OS

Technical Specifications

Operating Temperature	-10°C to 65°C
Storage Temperature	-40°C to 70°C
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 °C
Certification	FCC,CE,RoHS

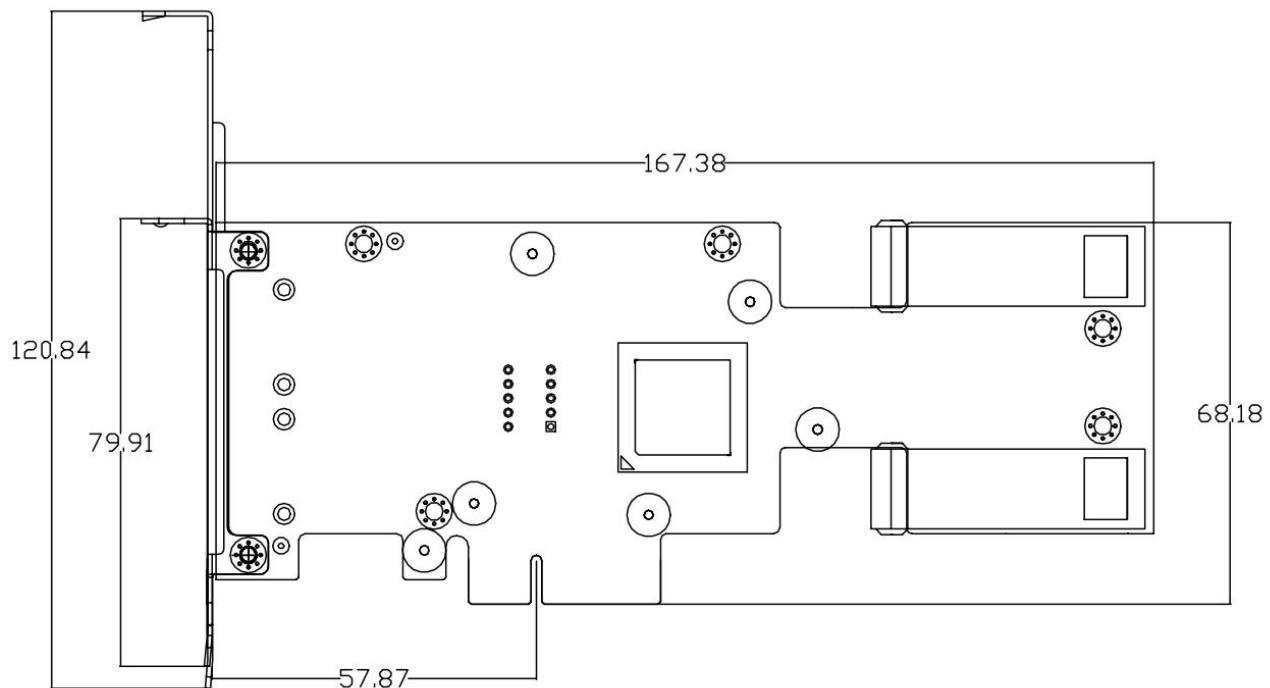
Physical Properties

PCB Size(Unit:mm)	167.38*68.18
Package Size (Unit: mm)	222*147*28

Packing List

Internet Network Adapter	*1
Product Warranty Card	*1
Packaging	Carton + Blister Box

Dimensions(unit:mm)



Revision History

LRES8030PF-BP;June 16, 2025

Initial release.V1.0



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