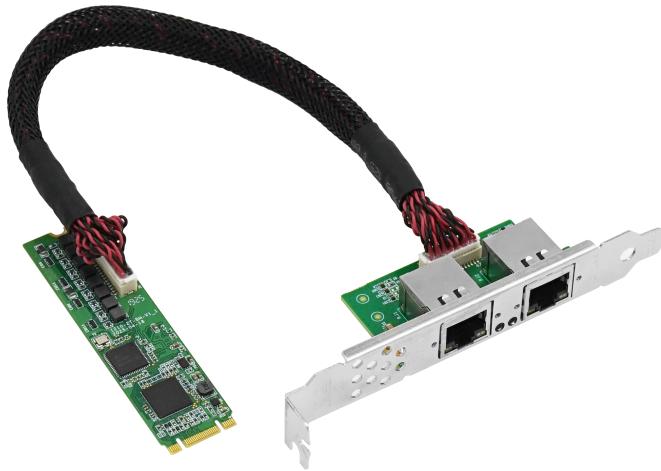


LRES2041PTI-2RJ45

M.2 BM 1G Dual-port Adapter

FC CE RoHS

Key Features:



- PCI Express 2.1 x1
- Dual-port RJ45 interfaces
- M.2(B + M Key)
- Support 1000/100/10Mbps
- Support 1588 PTP

Overview

The LRES2041PTI-2RJ45 is a dual-port Gigabit Ethernet adapter independently developed by Linkreal Co., Ltd., based on the Intel® I210 controller. Featuring an M.2 B+M Key interface, it supports stable and reliable 10/100/1000 Mbps network connections. With its PCIe 2.1 x1 interface to the host system, the adapter offers excellent compatibility and low power consumption.

The adapter adopts a modular split design, consisting of two parts: an integrated dual RJ45 network port module, and a compact M.2 2280 (B+M Key) sub-board connected via a dedicated cable. This flexible architecture allows deployment in space-constrained or structurally customized system environments.

In addition to delivering high-speed and stable data transmission, the adapter ensures broad compatibility, meeting the stringent demands of industrial automation and embedded systems for real-time performance, stability, and efficiency. It serves as an ideal network connectivity solution for industrial automation, intelligent manufacturing, edge computing, and a wide range of embedded applications.

Specifications

Model	LRES2041PTI-2RJ45
Controller	Intel I210
Adapter Type	M.2 Ethernet Adapter
Form Factor	2280(M.2 B+M Key)
Host Connector	PCIe2.1 x1
Connectors	RJ45
Port	Dual
Link Speed	1000/100/10Mbps
Protocol Support	IEEE 802.3 (10BASE-T, 100BASE-TX, 1000BASE-T) IEEE 802.3, 802.3u, 802.3ab PHY specifications compliant IEEE 802.3 autonegotiation IEEE 802.3x and IEEE 802.3z compliant flow control IEEE 1588 protocol and 802.1AS implementation IEEE 802.3az - Energy Efficient Ethernet (EEE)
PXE/UEFI	No
WoL	No
SR-IOV	No
1588 PTP	Yes
Jumbo Frames	9.2KB

LED Indicators

LED Type	Color/Behavior	Note
Speed	Off	10Mbps
	Amber	100Mbps
	Green	1000Mbps
Link/Activity	Off	No Link
	Green	Link
	Green(blink)	Link up(traffic flowing)

Supported Physical Layer Interfaces

Cabling	CAT3 or higher for 10BASE-T CAT5 or higher for 100BASE-TX operation CAT5e or higher for 1000BASE-T operation
---------	--

Supported Operating System

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

Technical Specifications

Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 °C
Certification	FCC,CE,RoHS

Physical Properties

PCB Size(Unit:mm)	80*22
Package Size (Unit: mm)	179*150*30

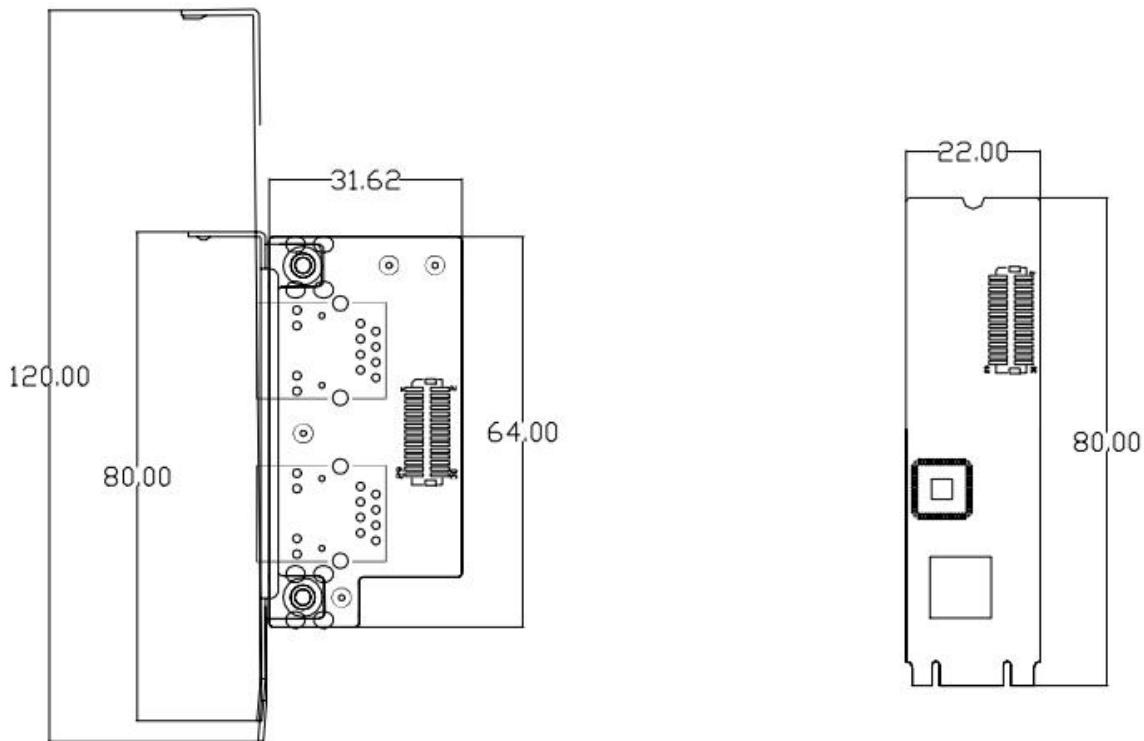
Packing List

Internet Network Adapter *1

Product Warranty Card *1

Packaging Carton + Anti-static bag

Dimensions(unit:mm)



Revision History

LRES2041PTI-2RJ45;June 16, 2025

Initial release.V1.0



Linkreal reserves the right to make changes without further notice to any products or data herein to improve reliability, function, or design. Information furnished by Linkreal is believed to be accurate and reliable. However, Linkreal does not assume any liability arising out of the application or use of this information, nor the application or use of any product or circuit described herein, neither does it convey any license under its patent rights nor the rights of others

Linkreal Co., Ltd.

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

📞 (+86)755-84507909
✉️ service@lr-link.com
🌐 www.lr-link.com

