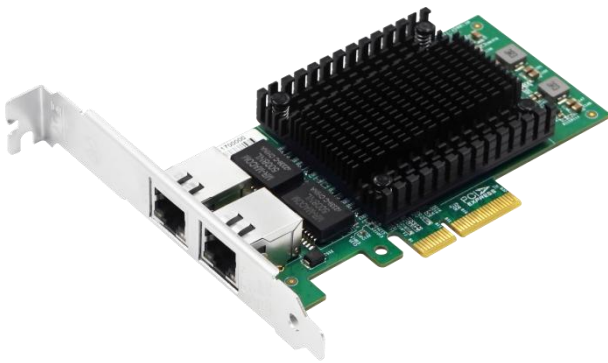


LRES1051PT

PCIe x4 Dual-port 1G Ethernet Network Adapter (Intel I210AT Based)

FC CE RoHS

Product Features

- Comply with PCIe2.1 design specifications;
- Supports 9.5KB jumbo data frames;
- Support IEEE 1588 PTP clock synchronization;
- Support 10/100/1000Mbps network adaptation;



Product Description

LRES1051PT is a PCIe2.1 x4 dual-port 1G Ethernet Network Adapter developed based on the Intel I210AT main control solution. The adapter uses PCIe 2.1 x4 interface, equipped with dual electrical port design, and supports Gigabit Ethernet connection, making the network layout more flexible while ensuring the bandwidth and speed of data transmission. It adopts Ethernet power management technologies such as energy-saving Ethernet and DMA merging, and has 4 send queues and 4 receive queues, error correction memory protection and other technologies to improve the reliability of data transmission, by combining parallel and pipeline logic architecture together to efficiently manage packets with latency. LRES1051PT supports Wake-on-LAN function, which can remotely wake up the device through the network to facilitate remote management and maintenance. At the same time, its UEFI compatibility ensures stable startup and operation on various platforms, enhancing system compatibility and reliability. LRES1051PT is suitable for various scenarios such as industrial automation control systems, machine vision applications, Internet of Things equipment, and industrial monitoring systems, providing users with stable and reliable network connection and control functions.

Technical Specifications

Model	LRES1051PT	
Controller	Intel I210AT	
Cable medium	Copper	
Fiber Type	1000BASE-T、100BASE-TX、10BASE-T	
Bracket Height	Low Profile & Full Height	
Power (min)	2.808W	
Power (max)	3.684W	
Bus Interface	PCIe v2.1 (2.5GT/s) x1; Structure PCIe x4	
Data rate per port	10Mbps; 100Mbps; 1Gbps	
Connector	2* RJ45	
ESD	±8KV	
Lightning surge test	±2KV	
Power Supply	PCIe	
Operating System Support	* Windows 7/8/8.1/10/11 * Windows Server 2008/ 2012 * Windows Server 2016/2019 * Windows Server 2022 * RHEL/Centos7.6/7.9/8.2/8.3 * Deepin 15.11/ 20(deepin) * Deepin 20.6/20.9(deepin) * Ubuntu 18.04.5/20.04.1 * Ubuntu 22.04.2/ 22.04.3 * SUSE 12.5/15.4 * FreeBSD 12.2/13.2 * ZTE New Fulcrum 3.2.2/5.0.5 * Galaxy Unicorn v10 * NeoKylin 7.6 * Zhongke Fangde desktop operating system 4.0 * Zhongke Fangde server operating system * Tongxin UOS 20 * Emind OS * OpenKylin 0.7.5 * VMware ESXi 6.5/6.7/7.0 * Mikrotik * iKuai router	
RSS	4	
PXE	No	
WoL	Yes	
DPDK	Yes	
Jumbo Frames	Yes	
UEFI	Yes	
SR-IOV	No	
1588 PTP	Yes	
Jumbo Frame(max)	9.5KB	
Protocol Support	IEEE802.3u IEEE802.3ab IEEE 802.1AS IEEE 802.1Qav IEEE 802.3az	

LED indication

10Mbps	Connection Status	Green Link
	Transfer status	Green Blink
100Mbps	Connection Status	Green Link + Green Link
	Transfer status	Green Link + Green Blink

