

LREC9030PF PCIe x1 100FX Desktop Fiber Ethernet Adapter (Intel 82574 Based)



Descriptions:

LREC9030PF-SFP is a typical model of 100FX Ethernet adapter, based on Intel 82574 Ethernet Controller, researched and designed by Shenzhen Lianrui Electronics Co., LTD. This Ethernet adapter builds on LR-LINK's 10 years history of excellence in NIC R&D and Manufacture. LR-LINK continues to maintain the leadership position on NIC in China. This optical fiber Ethernet adapter is widely applied various occasions of Fiber To The Desktop (FTTD), set up optical fiber LAN network, optical fiber connection with life expectancy of 30 years, not subject to electromagnetic interference and against lightning. This adapter has very high data security, high reliability, stability and compatibility, has been widely used in the secret industry, such as prosecution, courts, police and military industrial enterprises etc. represented defense sectors, and gained all customers' unanimous recognition.

LR-LINK has PCI, PCIe1; 100M, 1G; SC, SFP, LC, ST, FC; Multi-Mode, Single-Mode and Bidirectional etc. Full-Series Fiber To The Desktop optical fiber network card (FTTD fiber network card). There are more than 50 models for your choose. LR-LINK is an important pusher of the solutions application for global Fiber to the desktop (FTTD), is the leader of global desktop optical fiber network card. If you want to know more product information, please browse: <http://www.lr-link.com/DesktopFiberNICCards/index1.shtml>

Connectivity You Can Count On

For PCs with PCI Express (PCIe) slots, the LREC9030PF Desktop Adapter offers the newest technology for maximizing system performance and increasing end-user productivity. Specifically, the Intel Gigabit CT Desktop Adapter uses auto-negotiation to ensure the adapter runs at the highest available network speed (10, 100, or 1000 Mbps), and it maintains full bandwidth capacity with the dedicated bandwidth of a PCI Express input/output (I/O) bus to provide connectivity you can count on. Based on the low-power Intel 82574L Gigabit Ethernet Controller, this desktop adapter offers optimal performance in a low-cost, low-power, compact profile. Teaming support and an array of other advanced features enable customers to utilize this adapter as an entry-level server adapter as well.

Enhancing Desktop Performance

Fast servers and server connections are important for high network performance. However, server speed cannot overcome the drag of slow desktop performance. When a desktop PC initiates a transaction with the network server, the server quickly performs its portion of the transaction, but must wait for the desktop PC to complete its part of the transaction. The slower the PC, the longer the server must wait for transaction completion before moving to the next transaction. With PCI Express Gigabit performance to the desktop, transactions on the PC side complete significantly faster, allowing the network to service more transactions faster.

PCI Express Makes Gigabit Ethernet Even Faster

PCI Express is the third-generation I/O standard with performance that supercedes the previous PCI and PCI-X* slot standards. The key to PCIe performance is its higher dedicated I/O bandwidth. Unlike the PCI bus, which shares its I/O resources with all devices on the bus, PCIe dedicates its I/O to a single device. The LREC9030PF Desktop Adapter allows you to take advantage of this dedicated I/O by combining Gigabit Ethernet with PCI Express to provide high-performance network connectivity for desktops with PCI Express slots. Make the Intel Gigabit CT Desktop Adapter your choice for applications utilizing rich media content such as video streaming, web application, music, and gaming.

Quick and Easy Installation

The LREC9030PF Desktop Adapter is supported by Intel PROSet Utility for Microsoft* Device Manager and Intel PRO intelligent install. Intel PROSet simplifies adapter installation and gives you point-and-click power for configuring and managing all of your Intel Network Connections.

Key Features:

Single-port PCI-Express 100FX Ethernet adapter

High-performing design supporting PCI Express* Gen 2.1 2.5GT/s

According to customer's demands, we can select SC, LC, ST, FC and SFP fiber interface
100Mbps fast ethernet, Full duplex or half-duplex, reach 200Mbps in full duplex
Support IEEE 802.3x flow control
Support IP Unicast broadcast and multicast address filtering mechanism
Support priority queue
Support IEEE 802.1Q VLAN tagging
Support IP multicast packet filter reduces host CPU use
Interrupt moderation
Compatible with Fast Ethernet and Ethernet
Support for most network operating systems
Advanced configuration and power interface (ACPI); Wake on LAN* (WoL); Preboot Execution *Environment (PXE)
Remote Management Support
Intel® PROSet Utility for Microsoft* Device Manager
Advanced cable diagnostics
Optimized queues: 2 Transmit (Tx) and 2 Receive (Rx)
MSI-X support

Adapter Product Features:

Intel® PROSet Utility for easy configuration and management
Plug and play specification support: Standard
Auto-negotiation, full-duplex capable
Integrated media access control (MAC) and physical layer (PHY)
9 KB jumbo frames
Ships with full-height bracket installed, low-profile bracket added in package

Network Management:

Wired for Management (WFM) baseline v2.0
DMI 2.0 support and Windows Management
Instrumentation (WMI) and SNMP-Remote Installation Services (RIS)
ACPI* 1.0 power management
Wake on LAN* support over PCI Express*
PXE 2.0 enabled through boot read-only memory (ROM)

Advanced Software Features:

Test switch configuration: Tested with major switch original equipment manufacturers (OEMs)
TCP checksum offload – transition control
protocol (TCP), user datagram protocol (UDP), Internet protocol (IP)
IEEE 802.1p*, Intel(R) Priority Packet 8
TCP segmentation/large send offload
Teaming support
Interrupt moderation

Specifications:

Connector	SC、ST or LC (Fiber)
IEEE standard/network topology	100BASE-SX/LX
Cabling Distance	100BASE-SX: 275 m at 62.5 μm; 550 m at 50 μm 100BASE-LX: 10Km at 9μm;
Data rate supported per port	100 Mbps
Bus Type	PCI Express* 2.1 (2.5GT/s)
Interrupt levels	INTA, INTB, INTC, INTD, MSI, MSI-X
Bus Width	1-lane PCI Express; operable in x1 or greater slots
Hardware certifications	FCC , CE
Controller - processor	Intel® Ethernet Controller 82574
Power consumption (active-typical)	0.75 W
Operating temperature	0°C to 55°C (32°F to 131°F)
Storage temperature	-40°C to 70°C (-40°F to 158°F)
Storage humidity	90% non-condensing relative humidity at 35°C
Connect speed LED Indicators	Link/Activity LED: off = No Link; on = Link; Blinking = Activity
Full-height end bracket	12.07 cm (4.755 inches)
Low-profile end bracket	8 cm (3.15 inches)
Packing specification	18x15x3cm(7.08x5.9x1.18 inches)

Network Operating Systems (NOS) Software Support:

Windows 2000

Windows XP 32-bit (64-bit)

Windows Server 2003 32-bit (64-bit)

Windows Vista 32-bit (64-bit)

Windows 7 32-bit (64-bit)

Windows 8 32-bit (64-bit)

Windows Server 2008 32-bit (64-bit)

Windows Server 2008 R2 32-bit (64-bit)

Windows Server 2012 32-bit (64-bit)

DOS, Novell ODI

Novell Netware 5.x、 6.x

Linux 2.4 series kernel and 2.6.x 、 3.x

FreeBSD 7.x and Most of the FreeBSD

UnixWare / OpenUnix 8

Sun Solaris x86

VMWare

Order Information:

M/N	Description	Notes
LREC9030PF-SFP	PCIe x1 100Base SFP Port Fiber NIC	SFP connection, do not contain the fiber module

LRFP1315-02ATL	100Mbps SFP multi-mode Transceiver	100Mbps ,1310nm,2KM
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PS: The above details are only for reference, if there are any changes, no prior notice.