

LREC9804BT

— 10 Gigabit Quad-Port Ethernet Server Adapter

Description

LREC9904BT is a PCIe x8 10Gbps Quad Port Ethernet Copper Server Adapter Card based on Intel XL710 chipset, independently developed by Shenzhen Lianrui Electronics CO., and compatible with x16 lanes. The sever adapter, based on the INTEL X710 controller, is compatible with the existing network infrastructure and it will conveniently migrate the existing 100Mb/s and 1GbE networks to 10GbE. It can also link auto-negotiation among the rate of 100Mbps, 1GbE and 10GbE, which meets the most customers' demanding of smooth transition and ease of migration to 10GbE.

The adapter has four ports, of each can fully work independently, supporting four different practical application networks while working and decrease the number of slots on the equipment. The adapter has good compatibility with its four ports can be grouped together through their own ports or other Ethernet adaper ports. It can provide multiple fuctions like widening access bandwidth and bandwidth access redundancy to achieve an unstoppable access to the network.

The adapter uses a simple, universal 10GbE access interface that can be set at any place of a data center conveniently. LREC9904BT support the data transmission distance of 100 metres and plunk for Network structures such as Top of Rack(ToR), Middle of Row(MoR),End of Row(EoR) and etc. Intel Ethernet 700 series network adapter help the server to provide wide interoperability, optimized key performances and flexible IT network solutions among telecommunications, cloud computing and enterprises.



Key Features

- * Four RJ45 Ports
- * Be compatible with 100BASE-T and 1000BASE-T Network
- * PCI Express(PCIe) v3.0, x8 lanes, be compatible with PCIe x16
- * Network Virtualization offloads including VXLAN, GENEVE, NVGRE, MPLS, and VXLAN-GPE with Network Service Headers (NSH)
- * Intel Ethernet Flow Director for hardware based application traffic steering
- * Data Plane Development Kit (DPDK) optimized for efficient packet processing
- * Excellent small packet performance for network appliances and Network Functions Virtualization (NFV)
- * Intelligent offloads to enable high performance on servers with Intel Xeon Processors
- * I/O virtualization innovations for maximum performance in a virtualized server

Features

Controller	Intel FTXL710 + Intel EZX557	
Cable	Copper cable	
Cable Types	Cat-6a	10G can reach to 100m (10G BASE-T)
	Cat-6	10G can reach to 55m (10G BASE-T)
	CAT 5e/CAT/6CAT 6a	100BASE-T/1000BASE-T can reach to 100 m
Bracket	10GbE	28.9 W
	1GbE	18.1 W
	100Mbps	14.9 W
Connector	4*RJ45	
PCIe slot	PCI Express v3.0 (8.0GT/s) x8; compatible with x16	
Connector Rate	100Mbps/1000Mbps/10000 Mbps (Copper Cable)	
Power	Power By PCIe : +1.2V±8%/ +3.3V±9%	
Operating system support	Windows 7/8/8.1/10 Windows Server 2016/ 2016 Core/ 2012 R2/ 2012 R2 Core/ 2012 Windows Server 2012 Core/ 2008 R2/2008 R2 Core Linux Stable kernel version 2.6.32/3.x/4.x RHEL/CentOS 6.x/7.x Linux SLES 11 SP3 / SLES 12 FreeBSD 9/10/11 VMware ESX/ESXi 5.x/6.x	

Technical Features

Ethernet Power Management	Yes
IEEE* 802.3 Automatic negotiation	Yes
Support Speed	10G BASE-T, 1000BASE-T, 100BASE-T
IEEE Standard	IEEE 802.3 an 10GBASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3u 100BASE-T IEEE 802.1Q VLAN IEEE 802.1ad IEEE 1588 IEEE 802.1as
PCI-SIG* SR-IOV	Yes
Jumbo frame packet	Yes
VMDq	Yes
FCoE	Yes
PXE	Yes
DPDK	Yes
iSCSI	Yes
WOL	No

Environment Features

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 under 35°C
Certificate	FCC A, UL, CE, VCCI, BSMI, CTICK, KCC

LED Indicators

LED	10Gbps Link LED green, Green ACT LED Blink
	1Gbps LINK LED Yellow, Green ACT LED Blink
	100Mbps Green ACT LED Blink

Driving

Windows	Intel® Ethernet Converged Network Adapter X710-T
Linux	Intel® Ethernet Network Adapter XXV710

Testing Report

Server/User Configuration	CPU: Intel Xeon E3-1230 v5 @ 3.10GHz
	Motherboard: Intel S1200SPSR
	RAM:16 GB (Samsung DDR4 2133MHz)
	OS: Centos 7.3
	DUT: Network Adapter--L710-4T(LREC9904BT)

Testing Application Platform

Server	Lenovo 8871
	HUAWEI H22M-03
	Super micro server
Motherboard	Giada N50M-VU
	MSI B350M MORTAR
	Supermicro XIOSRL-F
	Intel S1200SPS
	Intel S1200BTL
	Intel S1400PF
	Intel S2600IP
	ASUS X79Z
	ASRock B250M-HDV
	GIGABYTE B75-D3V
	ASUS P8H77-V LE

Physical Features

PCB Size (mm)	161*68*1.6
weight (g)	193g

Order Information

M/N	Description
LREC9804BT	PCIe x8 10G Quad Port Copper Server Adapter(Based on Intel XL710, 3U/2U bracket)

PS: The above details is just for reference,if there is any change,no inform will have.

Companion Products

Fiber NIC

- LR-LINK PCI 100FX Desktop Adapter
- LR-LINK PCIe 100FX Desktop Adapter
- LR-LINK PCI 1000BASE-SX/LX Desktop Adapter
- LR-LINK PCIe 1000BASE-SX/LX Desktop Adapter
- LR-LINK PCIe 1000BASE-SX/LX Server Adapter
- LR-LINK PCIe 10GBASE-SR/LR Server Adapter
- LR-LINK PCIe 25GBASE-SR/LR Server Adapter
- LR-LINK PCIe 40GBASE-SR/LR Server Adapter
- LR-LINK PCIe 100GBASE-SR/LR Server Adapter

Copper NIC

- LR-LINK PCI 10/100Mbps Desktop Adapter
- LR-LINK PCIe 10/100Mbps Desktop Adapter
- LR-LINK PCI 10/100/1000Mbps Desktop Adapter
- LR-LINK PCIe 10/100/1000Mbps Desktop Adapter
- LR-LINK PCIe 10/100/1000Mbps Server Adapter
- LR-LINK PCIe 100/1Gbps/10Gbps Server Adapter

Download Drivers

To get the drivers, please visit us at <http://www.lr-link.com/ProductDriver/index1.shtml>

Product Quick Guide

To know the network card basic knowledge to choose the suitable NIC you need, please visit us at: <http://www.lr-link.com/product.html>

Customer Support

LR-LINK customer Support Services offers a broad selection of programs including phone support and warranty service. For more information, contact us at Service and availability. <http://www.lr-link.com/service.shtml>

LianRui Electronic Co.LTD

A professional supplier of high-quality NIC:PCI,PCI-X,PCI-Express;SC,ST,LC,SFP,SFP+,QSFP+;100M,1G,10G,25G,40G,100G;single,dual,quad ports. all series fiber and copper NIC with nearly 150 specifications which can meet demands of various applications, continuously creates value for customers and partners as well as OEM/ODM services provided.

Declaration

Shenzhen Lianrui Electronics Co., Ltd is an efficient Ethernet adapter design company with independent research and development, using Intel, Broadcom, Mellanox, Marvell, VIA, Realtek and other manufacturers Ethernet controller, developed by our company's independent R & D design team, manufactured by our company workshop, and then sell.

Our products specifications come from modifying the chip manufacturer's specifications released. Product features, technical parameters, technology right, intellectual property rights and brand names etc. mentioned in specifications are just referenced only. There is no infringement meaning. If there is any important and sensitive content related, please contact our Lianrui company, we'll delete them, thank you.

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