M.2 B+M to RTL8125B Dual-port 2.5G Ethernet NIC



P/N.: MC-M.2-B+M-RTL8125B

USER Manual

EN ver2.0

Description

M.2 B+B KEY RTL8125B 2.5G network adapter is combines a four-speed IEEE802.3 compatible Media Access controller with a four-speed Ethernet transceiver, it is complies with the IEEE802.3u specification for 10/100Mbps Ethernet ,the IEEE802.3ab specification for 1000Mbps Ethernet and IEEE802.3bz specification for 2500Mbps Ethernet. Also it offers high-speed transmission over CAT5e UTP cable OR CAT3 UTP(10Mbps only)cable .it is suitable for multiple market segments and emerging applications, such as desktop, workstation, server, communications platforms, and embedded applications.

Specification

- Support existing CAT-5 UTP cabling with automatic crossover detection
- Single-lane(x1)PCI-Express End-point controller with PHY integrated
- Compliant with PCI Express 2.0 Gen1
- Compliant with PCI Express M.2 Specification version1.0
- Compliant with PCI Power Management 1.2
- Connector type: B+M KEY, size: 22 x 80mm
- Integrated 10M BASE-Te and 100/1000M/2.5G base-T 802.3 compatible transceiver
- Supports 2.5G and 1G Lite mode
- Auto-Negotiation with Extended Next Page capability(XNP)
- Support PCI Express Specification Revision 2.1
- Supports pair swap/polarity/skew correction
- Crossover Detection& Auto-Correction
- Supports 1-Lane 2.5/5Gbps PCI Express Bus
- Supports hardware ECC(Error correction code)function
- Supports hardware CRC(Cyclic Redundancy Check)function
- Supports PCI MSI (Message Signaled Interrupt)and MSI-X
- Transmit/Receive on-chip buffer support
- Supports ECMA-393 ProxZzzy Standard for sleeping hosts

- Wake-On-LAN and ‘RealWow!’ Technology (remote wake-up)supports
- Compatible with IEEE802.3,IEEE802.3u,IEEE802.3ab
- Supports IEEE1588v1,IEEE1588v2,IEEE80.2AS time synchronization
- Supports IEEE802.1Qav credit-based shaper algorithm
- Supports IEEE802.1P Layer 2 Priority encoding
- Supports IEEE802.1Q VLAN tagging
- Supports IEEE802.1ad Double VLAN
- Supports IEEE802.3az (Energy Efficient Ethernet)
- Supports IEEE802.3bz(2.5GBase-T)
- Supports full duplex flow control(IEEE802.3x)
- Supports jumbo frame to 16K bytes
- Supports Virtual Machine Queue(VMQ)
- Supports quad core Receive –Side Scaling(RSS)
- Supports Protocol Offload (ARP&NS)
- Drivers for Vista /Win7 / Sever2008/Win8/ Sever 2012 / Win10 /Win11 / Linux, DOS

Package content

- 1 x M.2 B+M RTL8125B 2.5G Ethernet card
- 1 x User’s Manual
- 1 x CD
- 1 x Low profile bracket
- ~~Accessories~~

System Requirements

- Linux ,Win7/Win8/Server2008/Win8.1/Server2012/Win10/Win11
- One available MiniPCIE slot

Hardware installation

1. Turn off the computer and unplug the power cord
2. Remove the computer cover and the adapter slot cover from the slot that matches

your adapter

3. Insert the adapter edge connector into the slot and secure the bracket to the chassis
4. Replace the computer cover ,then plug in the power cord
5. Power on the computer

Install Drivers and software

Windows〇,R Operating Systems

1. Please insert the CD driver bound into your CD-ROM Drive.

2. Double-click to open the CD-ROM drive and find the driver corresponding to the system.

3.1 For Windows® Win7, Server 2008 R2(32/64 bit)

Type“RTL8125\Windows\Win7_Server2008 R2\Install_Win7_7127_10222019\setup.exe”, Double click it.

3.2 For Windows® Win8, Win8.1 Server2012(32/64 bit)

Type“RTL8125\Windows\Win8_8.1_Server2012\Install_Win8_8.1_8073_10222019 \setup.exe”, Double click it.

3.3 For Windows® Win10 (32/64 bit)

Type“RTL8125\Windows\Win10\Install_Win10_10036_10222019\setup.exe”, Double click it.

3.4 For Windows® Win11 (32/64 bit)

Type “RTL8125\Windows\Win11\Install_PCIE_Win11_11.4.1201.2021_01182022.exe”

4. Follow the on-screen instructions to complete the installation.

Support

More information and settings, please refer to the Adapter User Guides or you

can contact us.

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