1. Introduction

1.1 Product overview

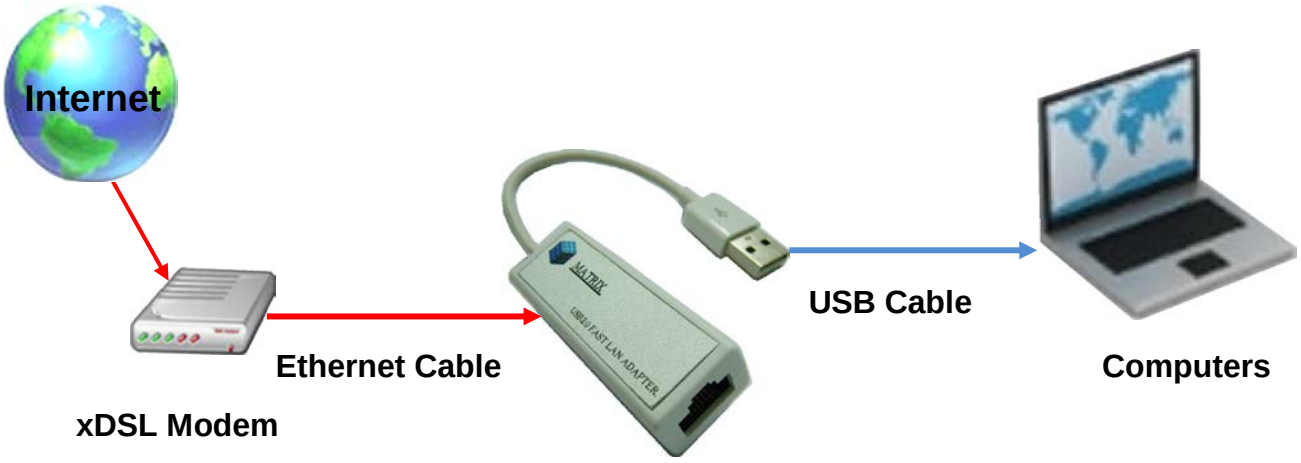
The **USB 2.0 Ethernet Adapter** allows your computer instantly connect to a 10/100Mbps network through simply a USB port; no hassle to open up your computer case as is required for an internal card now! It's also an ideal USB to LAN alternative for gaming console that needs network access in an environment lacking wireless capability.

Compared with USB 1.1 standard which offers 12 Mbps speed, the adapter's compliance with USB 2.0 (480Mbps) ensures true 10/100 Mbps network speed without any compromise.

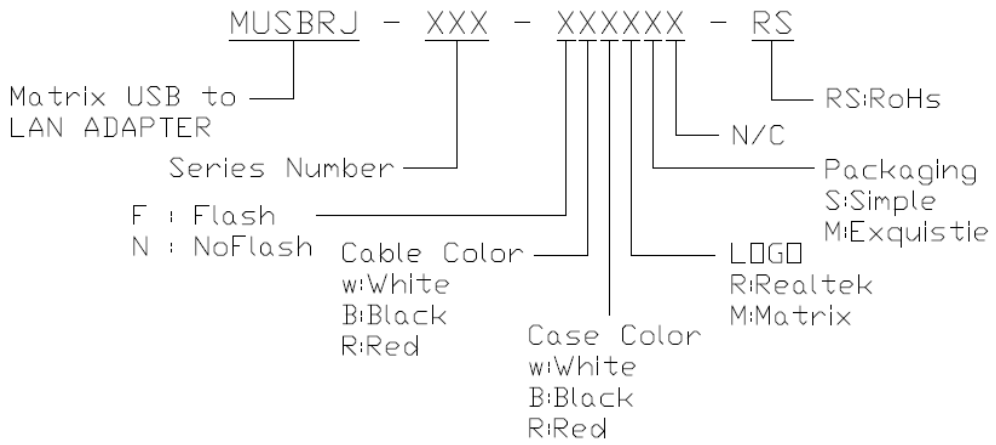
Furthermore, the adapter is compact and is USB bus-powered; it requires no external power adapter, so that you can use it without crowding your workspace at all.

1.2 Appearance

1.3 Application Diagram



1.4 Matrix P/N



2 Hardware and software specification

2.1 Hardware Specification

2.1.1 Integrated 10/100M transceiver

2.1.2 Auto-Negotiation with Next Page capability

2.1.3 Supports USB 2.0 and 1.1

2.1.4 Supports pair swap/polarity/skew correction

2.1.5 Crossover Detection & Auto-Correction

2.1.6 Supports Wake-On-LAN and ‘RealWoW!’ (Wake-On-WAN) Technology (see note 1)

2.1.7 Supports ECMA-393 ECMA ProxZzzy Standard for sleeping hosts (see note 1)

2.1.8 XTAL-Less Wake-On-LAN

2.1.9 Supports power down/link down power saving

2.1.10 Transmit/Receive on-chip buffer support

2.1.11 Embedded OTP memory

2.1.12 Built-in linear regulator (LDO)

2.1.13 Supports hardware CRC (Cyclic Redundancy Check) function

2.1.14 LAN disable with GPIO pin

2.1.15 Supports LPM (Link Power Management)

2.1.16 SPI Flash Interface is optional

2.1.17 Supports link change wake up

2.1.18 Supports Microsoft WPD (Wake Packet Detection)

2.1.19 Supports CDC-ECM

2.2 Software Specification

2.2.1 Microsoft NDIS5, NDIS6 Checksum Offload (IPv4, IPv6, TCP, UDP) and Segmentation Task-offload (Large send v1 and Large send v2) support

2.2.2 Supports Protocol Offload (ARP & NS)

2.3 IEEE

2.3.1 Supports Full Duplex flow control (IEEE 802.3x)

2.3.2 Fully compliant with IEEE 802.3, IEEE 802.3u

2.3.3 Supports IEEE 802.1P Layer 2 Priority Encoding

2.3.4 Supports IEEE 802.1Q VLAN tagging

2.3.5 Supports IEEE 802.3az-2010 (EEE)

2.4 Intel CPPM (Converged Platform Power Management)

2.4.1 Supports L1 with 3ms BESL

2.4.2 Supports selective suspend

Note 1. Select between Real WoW! or ECMA, only one feature can be active at a time

3 Mechanical Specification

3.1 Product Mechanical outline Specification

- Color: White , Black , Red (Optional)
- Material: Plastic

3.1.1 Mechanical Drawing