

## Features

### 1. Hardware

- a. Integrated 10/100M transceiver
- b. Auto-Negotiation with Next Page capability
- c. Supports USB 2.0 and 1.1
- d. Supports pair swap/polarity/skew correction
- e. Crossover Detection & Auto-Correction
- f. Supports Wake-On-LAN and 'RealWoW!' (Wake-On-WAN) Technology (see note 1)
- g. Supports ECMA-393 ECMA ProxZzzy Standard for sleeping hosts (see note 1)
- h. XTAL-Less Wake-On-LAN
- i. Supports 25MHz or 48MHz external clock (from oscillator or system clock source)
- j. Supports power down/link down power saving
- k. Transmit/Receive on-chip buffer support
- l. Embedded OTP memory
- m. Built-in linear regulator (LDO)
- n. Supports Customizable LEDs
- o. Controllable LED Blinking Frequency and Duty Cycle
- p. Supports hardware CRC (Cyclic Redundancy Check) function
- q. LAN disable with GPIO pin
- r. Supports LPM (Link Power Management)
- s. SPI Flash Interface
- t. Supports CDC-ECM
- u. 24-pin QFN 'Green' package

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

### 2. Software Offload

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

### 3. IEEE

- a. Supports Full Duplex flow control (IEEE 802.3x)
- b. Fully compliant with IEEE 802.3, IEEE 802.3u
- c. Supports IEEE 802.1P Layer 2 Priority Encoding
- d. Supports IEEE 802.1Q VLAN tagging
- e. Supports IEEE 802.3az-2010 (EEE)

### 4. Microsoft AOAC (Always On Always Connected)

- a. Supports 16-set 128-byte Wake-Up Frame pattern exact matching
- b. Supports link change wake up
- c. Supports Microsoft WPD (Wake Packet Detection)
- d. Supports Protocol Offload (ARP & NS)

### 5. Intel CPPM (Converged Platform Power Management)

- a. Supports L1 with 3ms BESL

b. Supports selective suspend

## Target Applications

### PC/Internet



USB Dongle



Docking Station



Port Replicator  
for Mobile Computer



USB KVME  
Switch



Internet Security  
USB Key



Card Reader



UWB/802.11n/WiMAX  
USB Dongle



Media Gateway



UMPC



Pocketable Computer

### Consumer Electronics



Portable Media Player



ePiano



TiVo Box



Game Console



IP STB



DVD-Recorder/DVR



IPTV