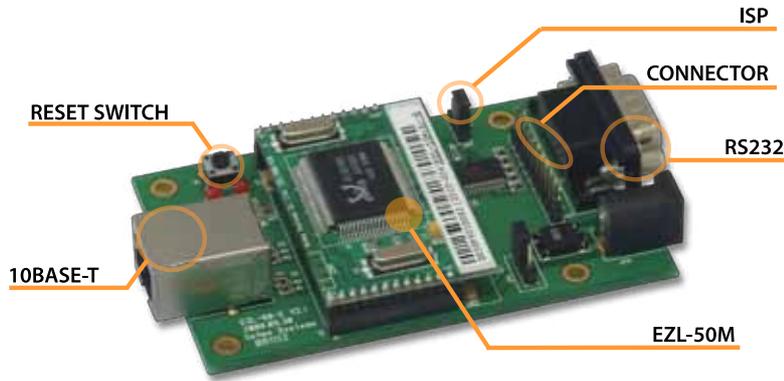


# EZL-60M(A)

## (Embedded Serial Ethernet Converter)



### Overview

EZL-60M(A) is a board for manufacturers who want to simply and easily embed Ethernet connectivity in their products.

This board helps your devices get network connectivity with just serial connection.

Applying this board, not only you can reduce cost and risk, but also you can shorten development time to add the network capability.

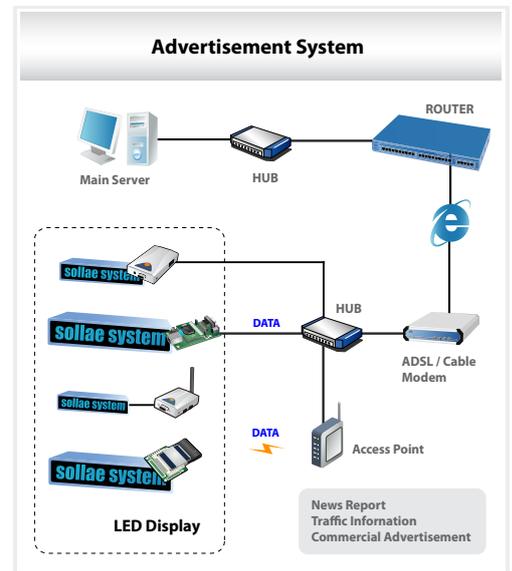
Because EZL-60M(A) allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are.

Since EZL-60M(A) has a D-SUB interface, it is easily applied to RS232 communication environments.

### Highlights

- Remote Monitor and Control serial devices
- 10Base-T Ethernet
- RS232 x 1 (up to 115,200bps, DB9-M interface)
- Board type (EZL-50M mounted), size - 100mm x 55mm x 21mm
- Security function : IP filtering, Password
- Supports DHCP and PPPoE for xDSL and cable network
- Flexible configuration and network communication by 'AT Commands' (patent)
- Supports communication with variety of TCP/UDP hosts(TCP Server/Client, UDP)
- Easy configuration utility via network for Windows OS (ezConfig)
- Virtual COM Port Redirector 'ezVSP' for Windows OS(provided free of charge)
- Firmware is upgradable through network
- Environmentally-friendly RoHS compliant

### Applications



## Specifications

### \*Serial Physical Interface

#### Serial Interface

RS232-RXD, TXD, RTS, CTS, DTR-DSR loop-backed

#### Connector

DB9M DTE Connector

### \*Serial Port Property

#### Data Rate

1200 bps ~ 115200 bps

#### Data Bits

7, 8 bits

#### Parity

None, Even, Odd, Mark, Space

#### Stop Bit

1 bit

#### Flow Control

RTS/CTS Hardware, Xon/Xoff Software

### \* Network Physical Interface

#### Network Interface

RJ45 (10Base-T)

1500 VAC Isolation

### \* Software Functions

#### Protocols

TCP, UDP, IP, ICMP, ARP, Ethernet, TFTP, DHCP, PPPoE

#### Security

IP filtering - Restrict host

Password for Configuring

#### Communication Mode

TCP server (T2S)

TCP client (COD)

TCP server/client with AT command (ATC)

UDP mode (U2S)

#### Additional Functions

Sending MAC address Option

### \* Indicators(LEDs)

#### Status

Red, The current status

#### Ethernet Link

Red

#### Ethernet RXD

Yellow

#### Ethernet TXD

Green

### \* Processors

#### CPU

Atmel AVR

#### ROM

64K bytes Flash Memory

#### RAM

32K bytes SRAM

### \* Management

#### ezConfig

Configuration and Monitoring Tool through Ethernet

#### AT Command

Configuring in ATC mode

### \* Supplementary Software

#### ezConfig

Configuration Tool for Windows

#### ezConfig Library

The Library of ezConfig for VC++, VB, Java, and Linux

#### ezVSP

Serial to Network Virtual Driver for Windows

#### ezTerm

Simple TCP/IP Communication Test Tool

#### hotflash

Firmware Upgrade Utility for Windows

### \* Dimension

#### Size

100mm x 55mm x 21mm

#### Body Netweight

about 43g

### \* Operating Environment

#### Input Voltage

DC 5±0.25V

#### Power Consumption

55mA typical

#### Operating Temperature

0 °C ~ 55 °C

#### Storage Temperature

-45 °C ~ 85 °C

## System Diagram

