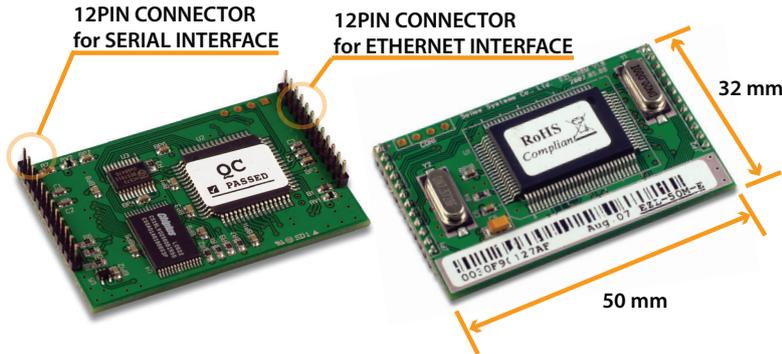


# EZL-50M

## (Embedded Serial Ethernet Converter)



### Overview

EZL-50M, one of the best seller of our company so far, is for manufacturers who want to easily and economically embed Ethernet connectivity in their products.

This compact module helps your devices get network connectivity with just serial connection. Applying this module, not only you can reduce cost and risk, but also you can shorten development time to add the network capability.

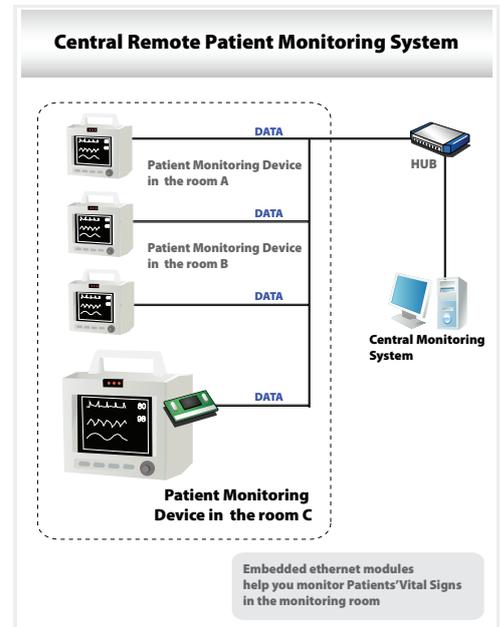
Because EZL-50M allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are.

Since EZL-50M's UART port can be designed to interface with RS232, RS422 or RS485 systems, it is available on various environments.

### Highlights

- Serial to Ethernet Converter
- Compact module type : 50mm x 32mm x 11mm
- 10Base-T Ethernet
- 1 x UART (5V-TTL, up to 115,200bps) available on RS232/RS422/RS485 extension
- Access Restriction : IP filtering, Password
- 4 Communication modes (TCP server, TCP client, AT Command and UDP)
- DHCP and PPPoE
- Flexible configuration and network communication by 'AT Commands' (patent)
- Powerful configuration software for Windows OS (ezConfig)
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Firmware upgrade through Network
- Environmentally-friendly RoHS compliant

### Applications



## Specifications

### \*Serial Physical Interface

#### Serial Interface

5V TTL UART-RXD, TXD,  
RTS(TXDE for RS485), CTS

#### Connector

1x12 2mm pitch male header

### \*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

1x12 2mm pitch male header (10Base-T)  
Additional circuit required

### \* 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

Active Low

Ethernet Link

Active Low

Ethernet RXD

Active High

Ethernet TXD

Active High

### \* 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 Win-  
dows

#### ezTerm

Simple TCP/IP Communication Test Tool

#### hotflash

Firmware Upgrade Utility for Windows

### \* Dimension

#### Size

50mm x 32mm x 11mm

#### Body Netweight

about 10g

### \* Operating Environment

#### Input Voltage

DC 5±0.25V

#### Power Consumption

61mA typical

#### Operating Temperature

0 °C ~ 55 °C

#### Storage Temperature

-40 °C ~ 85 °C

## System Diagram

