

Data Sheet

# EZL-50L(A) | Embedded Serial to Ethernet Converter



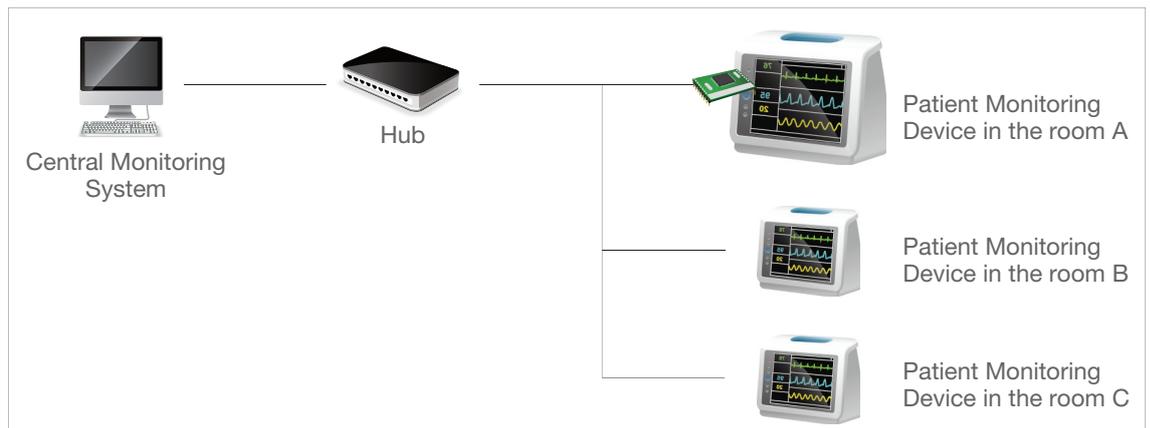
## Overview

EZL-50L(A) is a module for manufacturers who want to embed Ethernet connectivity in their products easily and economically. The compact EZL-50L(A) module adds network connectivity to your devices with a serial interface on its host microcontroller. It reduces cost and risk and shortens development time to add networking capability as a standard feature. It adds network connectivity to your devices by processing TCP/IP protocol which is required to send and receive data over the Internet. EZL-50L(A) also makes it possible to extend the distance of serial communications without any change of your legacy systems or replace direct serial connection. So your devices can be remotely controlled, managed and monitored over the Internet. Because of its low cost, it is ideal for high-volume products which need low-cost. Not only EZL-50L(A) performs like EZL-50L in all the functions, but also has an advantage in power consumption.

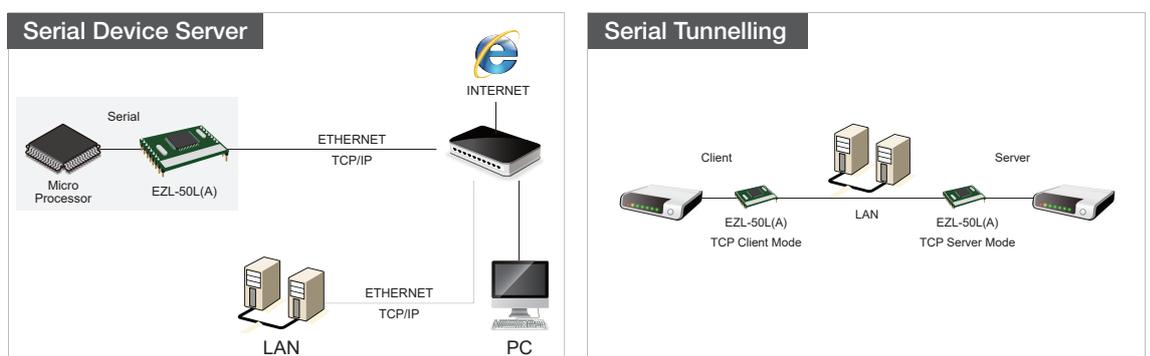
## Features

- 1 x UART(5V level)
- Compact module type (50mm x 32mm x 11mm)
- Flexible configuration and network communication by 'AT Commands' (patent)

## Application



## System Diagram



# Specifications

| <b>Serial Physical Interface</b>  |   |
|-----------------------------------|---|
| Serial Interface                  | 5V level-RXD, TXD, RTS(TXDE for RS485), CTS   |
| Connector                         | 1x12 2mm pitch male header x 2  |
| <b>Serial Port Properties</b>     |   |
| Baudrate                          | 1,200bps ~ 115,200bps   |
| Data Bits                         | 7, 8 bits   |
| Parity                            | None, Even, Odd, Mark, Space  |
| Stop Bit                          | 1   |
| Flow Control                      | RTS/CTS(Hardware), Xon/Xoff(Software)   |
| <b>Network Physical Interface</b> |   |
| Network Interface                 | 10Base-T Ethernet<br>Additional circuit required  |
| <b>Software Functions</b>         |   |
| Protocols                         | TCP, UDP, IP, ICMP, ARP, Ethernet, TFTP, DHCP, PPPoE  |
| Security                          | IP filtering<br>Restrict host Password for Configuring  |
| Communication Mode                | TCP Server (T2S)<br>TCP Client (COD)<br>TCP Server/Client with AT command (ATC)<br>UDP Mode (U2S) |
| Additional Functions              | Sending MAC address Option  |
| <b>Indicators (LEDs)</b>          |   |
| Protocols                         | Active Low  |
| Ethernet Link                     | Active Low  |
| Ethernet RXD                      | Active High   |
| Ethernet TXD                      | Active High   |
| <b>Management</b>                 |   |
| ezConfig                          | Configuring and Monitoring Tool through Ethernet  |
| AT Command                        | Configuring in ATC mode   |
| <b>Supplementary Software</b>     |   |
| 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   |
| <b>Dimension</b>                  |   |
| Size                              | 50mm x 32mm x 11mm  |
| <b>Operating Environment</b>      |   |
| Input Voltage                     | DC 5±0.25V  |
| Current Consumption               | 49mA typical  |
| Operating Temperature             | 0℃ ~ +55℃   |
| Storage Temperature               | -40℃ ~ +85℃   |