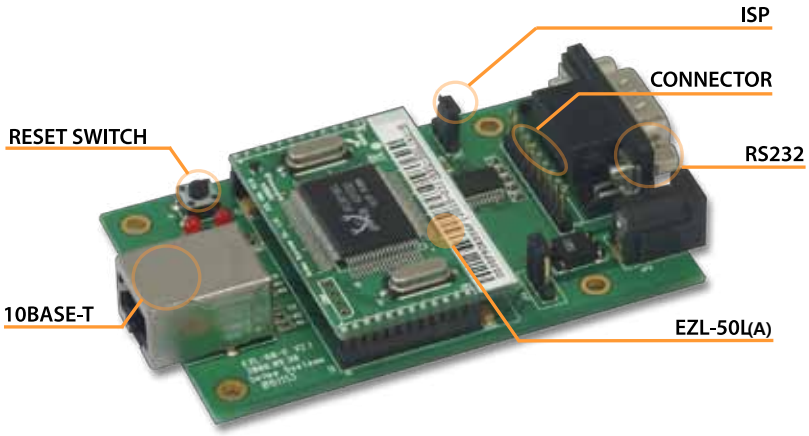
EZL-60L(A)

(Embedded Serial Ethernet Converter)



Overview

EZL-60L(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.

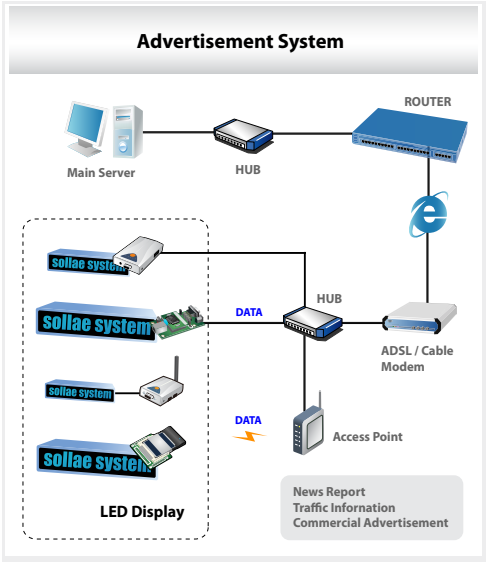
Because EZL-60L(A) allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are.

Since EZL-60L(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-50L 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



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Specifications

Serial Physical Interface

Serial Interface
RS232-RXD, TXD, RTS, CTS, DTR-DSR loopbacked

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
4K 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 46g

* Operating Environment

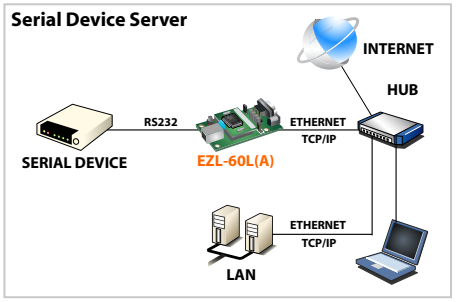
Input Voltage
DC 5±0.25V

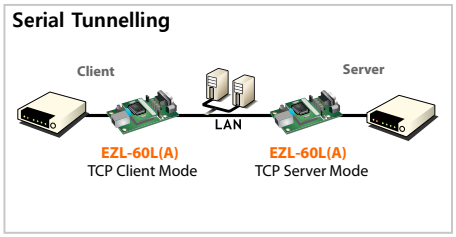
Operating Temperature
0 ℃ ~ 55℃

Power Consumption
49mA typical

Storage Temperature
-40 ℃ ~ 85℃

System Diagram





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