EZL-60M
(Embedded Serial Ethernet Converter)

BOARD | ETHERNET NETWORK INTERFACE | RS232-C SERIAL INTERFACE | FIRMWARE Download | TFTP(LAN) | ezConfig | VOLTAGE 5V | ID entification MAC | RoHS Compliant

- ISP
- CONNECTOR
- RS232
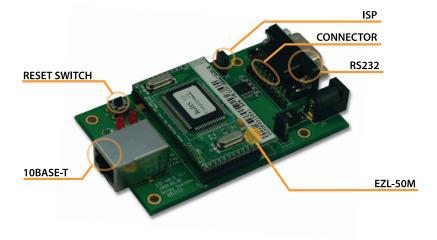- RESET SWITCH
- 10BASE-T
- EZL-50M

Overview

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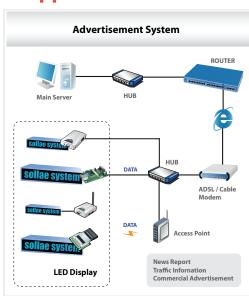
Because EZL-60M allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are.

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

Highlights

- RS232 to Ethernet Converter
- Board type (EZL-50M mounted) with a RJ45 and D-SUB connecter
- Compact size: 100mm x 55mm x 21mm
- 10Base-T Ethernet
- 1 x RS232 (up to 115,200bps, DB9-M interface)
- 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

Advertisement System

Main Server — HUB — ROUTER — ADSL / Cable Modem — Access Point

LED Display

DATA

News Report
Traffic Information
Commercial Advertisement

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
61mA typical

Operating Temperature
0 ℃ ～ 55℃

Storage Temperature
-45 ℃ ～ 85℃

System Diagram

Serial Device Server

Serial Tunnelling

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