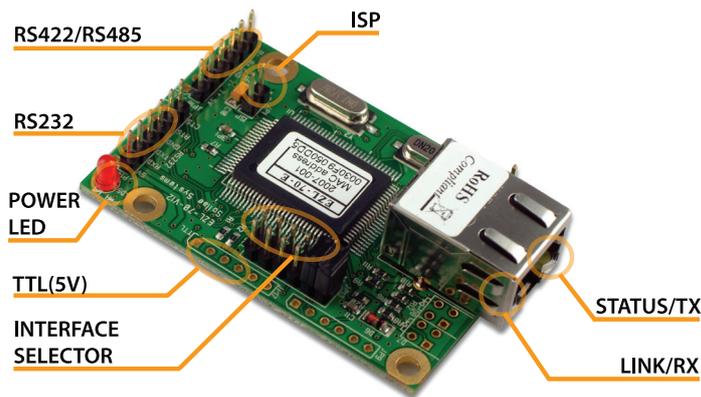


EZL-70

(Embedded Serial Ethernet Converter)



Overview

EZL-70 is a board for manufacturers who want to quickly and easily embed Ethernet connectivity in their products.

This compact 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.

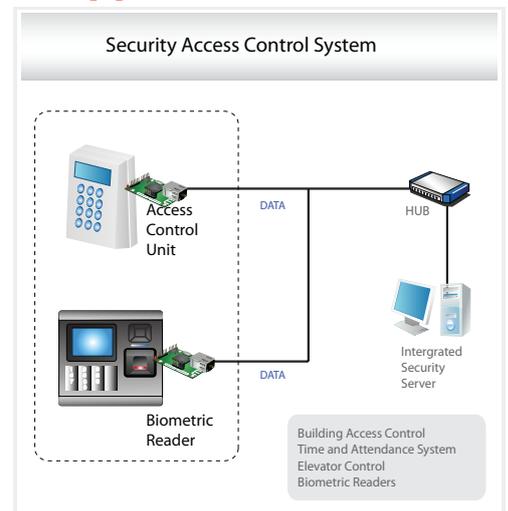
Because EZL-70 allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are.

Since EZL-70 has 4 types of serial communication (TTL, RS232, RS422 and RS485), it can be simply applied to various environments.

Highlights

- Serial to Ethernet Converter
- Board type with a built-in RJ45 connector for Ethernet interface
- 10Base-T Ethernet
- UART x 1 (5V-TTL, RS232, RS422 or RS485 communication)
(Maximum data rate: 115,200bps)
- Compact size, 64.4mm x 40mm x 17mm
- Access Restriction : IP filtering, Password
- DHCP and PPPoE
- Flexible configuration and network communication by 'AT Commands' (patent)
- 4 Communication modes (TCP server, TCP client, AT Command and UDP)
- Firmware upgrade through Network
- Powerful configuration software for Windows OS (ezConfig)
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Environmentally-friendly RoHS compliant

Applications



Specifications

*Serial Interface

RS232-RXD, TXD, RTS, CTS
5V-TTL UART - RXD, TXD, RTS, CTS
RS422 - TX+, TX-, RX+, RX- (full duplex)
RS485 - TRX+, TRX- (half duplex)
Interface type selection: by a jumper

Connector

2.54mm pitch header

*Serial Port Property

Data Rate

1200 bps ~ 115200 bps

Data Bits

5, 6, 7, 8 bits

Parity

None, Even, Odd, Mark, Space

Stop Bit

1 or 2

Flow Control

RTS/CTS Hardware (RS232, 5V-TTL)
Xon/Xoff Software

* Network Physical Interface Ethernet

RJ45
10Base-T

* 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)

Power

Red

LAN Link/LAN RXD

Green

Status/LAN TXD

Yellow

* 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

60mm x 40mm x 17mm

Body Netweight

about 20g

* Operating Environment

Input Voltage

DC 5±0.25V

Power Consumption

64mA typical

Operating Temperature

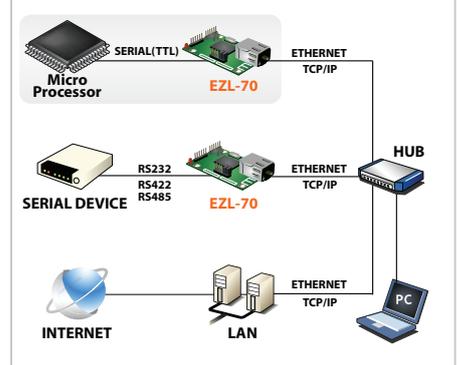
0 °C ~ 55 °C

Storage Temperature

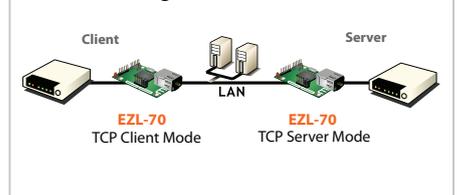
-40 °C ~ 85 °C

System Diagram

Network Application



Serial Tunnelling



Serial Device Server (for RS232/422/485)

