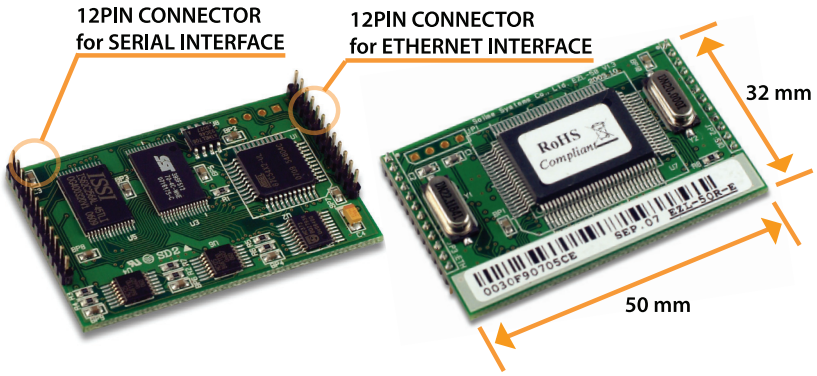
EZL-50R

(Embedded Serial Ethernet Converter)



Overview

EZL-50R 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.

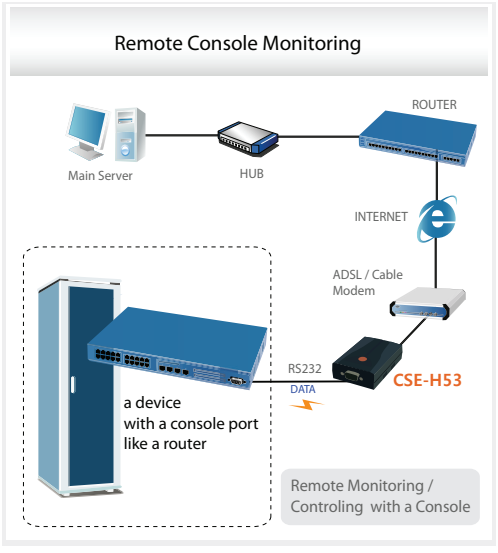
Because EZL-50R allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are.

Since EZL-50R had been discontinued, EZL-50M has been continuously replaceing it.

Highlights

- Remote Monitor and Control serial devices
- 10Base-T Ethernet
- UART x 1 (5V-TTL), up to 230,400bps, available RS232/RS422/RS485 extension
- Very compact size, 50mm x 32mm x 11mm
- 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
5V TTL UART-RXD, TXD, RTS, CTS

Connector
1x12 2mm pitch male header

**Serial Port Property*

Data Rate
1200 bps ~ 230400P bps

Data Bits
7, 8 bits

Parity
None, Even, Odd

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)

** Indicators(LEDs)*

Status
Active Low

Ethernet Link
Active Low

Ethernet RXD
Active High

Ethernet TXD
Active High

** Processors*

CPU
8051 clone

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
50mm x 32mm x 11mm

Body Netweight
about 10g

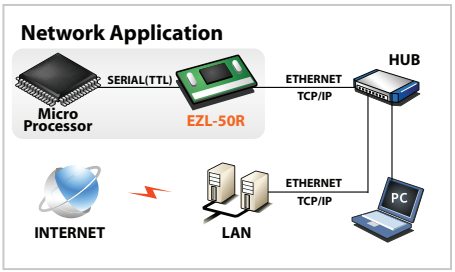
** Operating Environment*

Input Voltage
DC 5±0.25V

Operating Temperature
0 ℃ ~ 55℃

Storage Temperature
-40 ℃ ~ 85℃

System Diagram



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