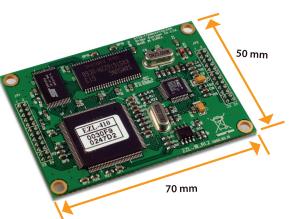
EZL-410 (Embedded Serial Ethernet Converter)





Overview

EZL-410 is a module for manufacturers who want to quickly and easily embed Ethernet connectivity in their products.

This module helps your multiple 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.

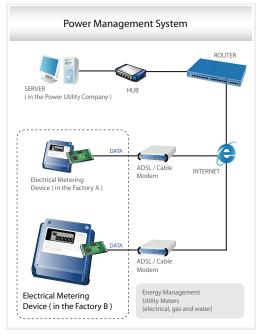
Because EZL-410 allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are.

Since EZL-410 has four UART interfaces, it could be an ideal solution for environments where multiple serial devices are used.

Highlights

- Multi port Serial to Ethernet Converter
- 10/100Base-T Ethernet
- 4 x UART (3.3V-TTL, up to 115,200bps) available on RS232 extension
- MIC (Embedded RTOS developed by ourselves)
- Access Restriction : IP filtering, Password
- Security Protocol : SSL3.0/TLS1.0
- Flexible configuration and network communication by 'AT Commands' (patent)
- 4 Communication modes (TCP server, TCP client, AT Command and UDP)
- DHCP and PPPoE
- Powerful configuration software for Windows OS (ezConfigMP)
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Firmware upgrade through Network
- Environmentally-friendly RoHS compliant

Applications



Specifications

*Serial Physical Interface

Serial Interface 4 x UART (3.3V-TTL) RXD, TXD, RTS, CTS

Connector 2x12 2mm pitch male header

*Serial Port Property

Data Rate 600 bps ~ 115200 bps Data Bits 5, 6, 7, 8 bits Parity None, Even, Odd Stop Bit 1 or 2 Flow Control RTS/CTS Hardware

* Network Physical Interface Ethernet

2x12 2mm pitch male header 10Base-T/100Base-TX Ethernet Speed Auto Sense 1:1 orCross-over Cable Auto Sense

* Software Functions Protocols TCP, UDP, IP, ICMP, ARP, Ethernet, TELNET TFTP, DHCP, PPPoE, SSL3.0/TLS1.0,

Security SSL (Secure Socket Layer) Password for Configuring

Communication Mode TCP server (T2S)

TCP server (125) TCP client (COD) TCP server/client with AT command (ATC) UDP mode (U2S)

Operating System MIC RTOS

* Indicators(LEDs)

Link Ethernet Status LED 4 x Status LEDs Ethernet Link, Full duplex, 10M, 100M

* Processors

CPU ARM7 Core ROM 256K bytes Flash Memory RAM 2M bytes SDRAM

* Management

ezConfigMP

Configuration and Monitoring Tool through Ethernet Telnet Telnet Login AT Command Configuring in ATC mode

* Supplementary Software

ezConfigMP Configuration Tool for Windows ezConfigMP Library The Library of ezConfigMP for VC++ ezVSP Serial to Network Virtual Driver for Windows ezTerm Simple TCP/IP Communication Test Tool hotflash Firmware Upgrade Utility for Windows

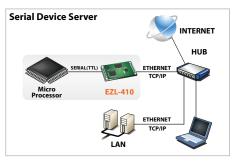
* Dimension

Size 70mm x 50mm x 9mm Body Netweight about 18g

* Operating Environment Input Voltage

3.3V Power Consumption 300mA typical Operating Temperature $0 \degree \sim 55\degree$ Storage Temperature -40 $\degree \sim 85\degree$

System Diagram



Serial Tunnelling

