EZP-250
(Embedded Serial PPP Converter)

MODULE · **PPP** NETWORK INTERFACE · **TTL** SERIAL INTERFACE · **FIRMWARE** Download · **SERIAL** · **VOLTAGE 3.3V** · **VOLTAGE 5V**

RoHS Compliant

20 mm

34 mm

Overview

EZP-250 is a module for manufacturers who want to quickly and easily embed PPP connectivity in their products.

This very compact module helps your devices get PPP connectivity with just serial connection through 2G, TRS or Dial-up network.

Applying this module, not only you can reduce cost and risk, but also you can shorten development time to add the network capability.

Because EZP-250 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.

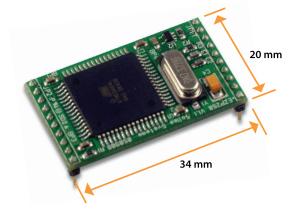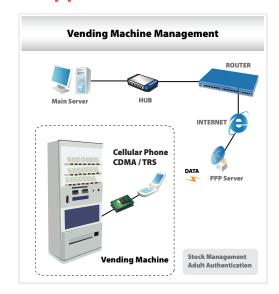Since EZP-250 uses 2G wireless network, it is available throughout the world regardless of place.

Highlights

- Remote Monitoring and Controlling serial devices over PPP network
- 1 x UART for serial device (3.3V/5V-TTL, up to 115,200bps) available on RS232 extension- The avarage data rate : about 5K bps in the PPP network
- 1 x UART for cell phone, dial-up or TRS modem
- Very compact size : 34mm x 20mm
- Dedicated commands to control EZP-250
- 2 Communication modes (TCP client and UDP)
- Firmware upgrade through Serial
- PPP(LCP/IPCP/PAP/CHAP) Support
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Environmentally-friendly RoHS compliant

Applications

Vending Machine Management

Main Server · HUB · ROUTER · INTERNET · DATA · PPP Server · Cellular Phone CDMA / TRS · Vending Machine · Stock Management Adult Authentication

Specifications

Serial Physical Interface

Serial Interface
2 x UART (TE2, MT2, 3.3V/5V-TTL)
RXD, TXD, RTS, CTS, DTR, DSR

Connector
2mm pitch male header

Serial Port Property

Baudrate
1200bps ～ 230400 bps

Data Bits
8 bits

Parity
None

Stop Bit
1 bit

Flow Control
RTS/CTS Hardware
(selectable by a command)

Network Physical Interface

Network Interface
UART - for modem connection
PPP network

Software Functions

Protocols
TCP, UDP, IP, ICMP, PPP

Security
PAP, CHAP

Communication Mode
TCP server
TCP client
UDP
ICMP (ping)

Processors

CPU
Atmel AVR

ROM
64K bytes Flash Memory

RAM
4K bytes SRAM

Supplementary Software

ezTerm
Simple TCP/IP Communication Test Tool

pflash
Firmware Upgrade Utility for Windows

ezVSP
Serial to Network Virtual Driver for Windows

Dimension

Size
34mm x 20mm

Body Netweight
about 4g

Operating Environment

Input Voltage
DC 2.7v~5.5V

Power Consumption
4mA (at 3.3V, idle state)

Operating Temperature
0 ℃ ～ 70℃

Storage Temperature
-40 ℃ ～ 85℃

System Diagram

TRS/CDMA/GPRS NETWORK

INTERNET

ISP

TRS/CDMA/GPRS

Micro Processor — SERIAL(TTL) — EZP-250 — TCP/IP/PPP — TRS/CDMA/GPRS MODEM

Network Application

Micro Processor — SERIAL(TTL) — EZP-250 — Serial (TTL) TCP/IP/PPP — DRIVER

INTERNET

ISP

TEL LINE

CDMA/GPRS / TRS

TRS,CDMA,GPRS CELL-PHONE