EZU-100
(Embedded Serial PPP Converter)

MODULE | PPP NETWORK INTERFACE | TTL SERIAL INTERFACE | FIRMWARE Download / SERIAL | USB | VOLTAGE 3.3V | RoHS Compliant

20 mm

34 mm

Overview

EZU-100 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 or 3G 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 EZU-100 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 EZU-100 uses 2G or 3G wireless network, it is available throughout the world regardless of place.
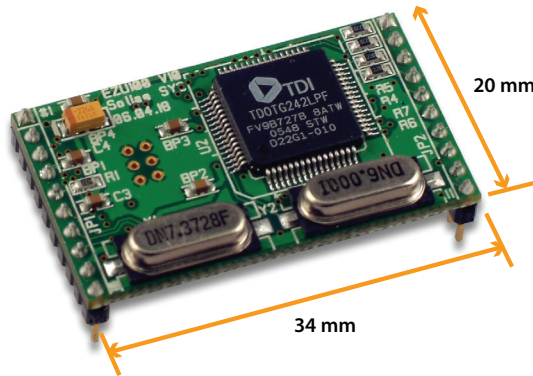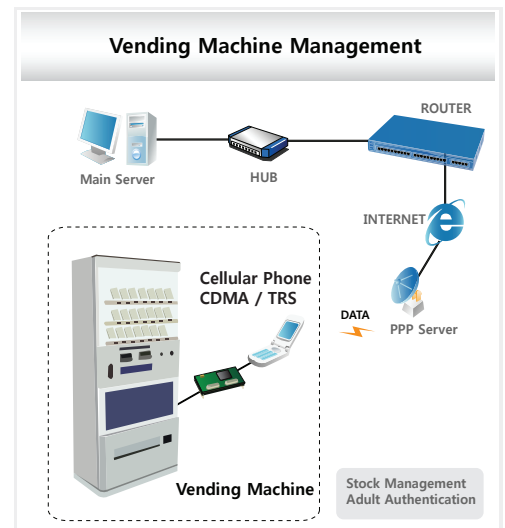
Highlights

- Serial to PPP network (HSDPA or CDMA) Converter
- Very compact size : 34mm x 20mm
- 1 x UART (3.3V-TTL, up to 115,200bps, available on RS232 extension)
  - The avarage data rate : about 5K bps in the PPP network
- 1 x USB host (USB Communication Class for a CDMA, HSDPA modem)
- Dedicated commands to control EZU-100
- 2 Communication modes (TCP client and UDP)
- Firmware upgrade through Serial
- PPP(LCP/IPCP/PAP/CHAP)
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Environmentally-friendly RoHS compliant

Applications

Vending Machine Management

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

Specifications

*Serial Physical Interface

Serial Interface
1 X UART (TE2, 3.3V-TTL)
RXD, TXD, RTS, CTS

Connector
2mm pitch male header

*Serial Port Property

Baudrate
1200 bps ~ 230400 bps (fixed)

Data Bits
8 bits

Parity
None

Stop Bit
1 bit

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

* Network Physical Interface

Network Interface
USB Host / USB Communication Class PPP

* 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
128K bytes Flash Memory

RAM
4K bytes SRAM

* Supplementary Software

ezTerm
Simple TCP/IP Communication Test Tool

uflash
Firmware Upgrade Utility for Windows

ezVSP
Serial to Network Virtual Driver for Windows

* Dimension

Size
34mm x 20mm

Body Netweight
about 5g

* Operating Environment

Input Voltage
DC 3.3V

Power Consumption
26mA typical (except USB modem)

Operating Temperature
0 ℃ ~ 55℃

Storage Temperature
-40 ℃ ~ 85℃

System Diagram

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