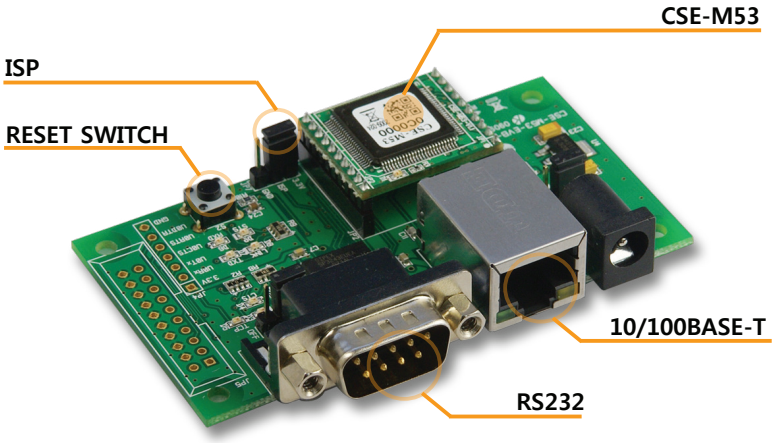
CSE-B63

(Embedded Serial Ethernet Converter)



Overview

CSE-B63 is a board for manufacturers who want to easily and economically 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.

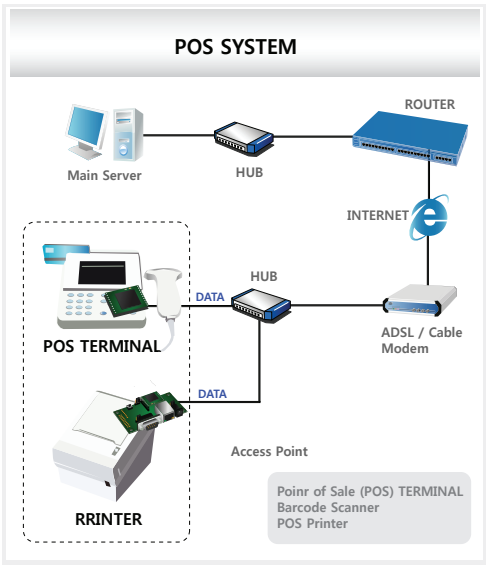
Because CSE-B63 allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are.

Since CSE-B63 has a D-SUB interface, it is easily applied to RS232 communication environments.

Highlights

- Serial to Ethernet Converter
- Board type (CSE-M53 mounted) with a RJ45 and D-SUB connecter
- Compact size: 80mm x 44mm x 17mm
- 10/100Base-T Ethernet, auto MDI/MDIX
- Variety of monitoring status (debugging mode, ezManager, Telnet)
- High speed RS232 x 1 (up to 921.6Kbps)
  (In case of using Xon/Xoff, the maximum data rate of the UART is limited to 230.4Kbps)
- Flexible configuration and network communication by 'AT Commands' (patent)
- 4 Communication modes (TCP server, TCP client, AT Command and UDP)
- DHCP and PPPoE
- DNS (easy access using domain name)
- IP Change Notification for dynamic IP address management (TCP, UDP and DDNS)
- Telnet COM Port Control Option (RFC 2217)
- Firmware upgrade through Network
- Powerful management software for Windows OS (ezManager)
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Environmentally-friendly RoHS compliant

Applications



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Specifications

**Serial Physical Interface*

Serial Interface
1 x RS232
RXD, TXD, RTS, CTS

Connector
9 pin D-sub male

**Serial Port Property*

Baudrate
300 bps ~ 921,600 bps

Data Bits
5, 6, 7, 8 bits

Parity
None, Even, Odd, Mark, Space

Stop Bit
1, 2

Flow Control
RTS/CTS Hardware, Xon/Xoff Software

** Network Physical Interface*

Network Interface
10Base-T/100Base-TX Ethernet (RJ-45)
Ethernet Speed Auto Sense
1:1 or Cross-over Cable Auto Sense

** Software Functions*

Protocols
TCP, UDP, IP, ICMP, ARP, Ethernet, TELNET
TFTP, DHCP, PPPoE, DNS, DDNS
Telnet COM Port Control Option (RFC 2217)

Security
IP & MAC filtering - Restrict host or network
Password for Configuring

Communication Mode
TCP server (T2S)
TCP client (COD)
TCP server/client with AT command (ATC) - Patent
UDP mode (U2S)

Additional Functions
Remote Debug Function
TCP server / client mode
Sending MAC address Option

** Indicators(LEDs)*

Run
Running indicator (embedded LED)

PWR
red

Serial TXD
green

Serial RXD
green

Serial RTS
green

Serial CTS
green

TCP
TCP connection Indicator (green)

STS
The current status (green)

Ethernet Link
green

Ethernet RXD
green

Ethernet TXD
green

** Processors*

CPU
ARM Cortex-M3 Core

ROM
64K bytes Flash Memory

RAM
16K bytes SRAM

** Supplementary Software*

ezManager
Configuration Tool for Windows

ezVSP
Serial to Network Virtual Driver for Windows

ezTerm
Simple TCP/IP Communication Test Tool

hotflash
Firmware Upgrade Utility for Windows

** Dimension*

Size
80mm x 44mm x 17mm

Body Netweight
about 34g

** Operating Environment*

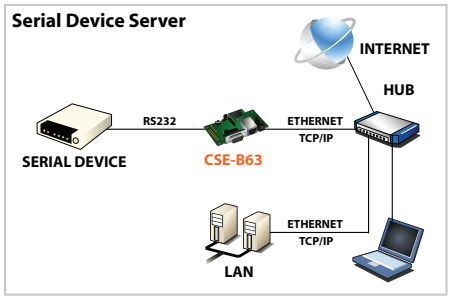
Input Voltage
DC 5V ±0.5V

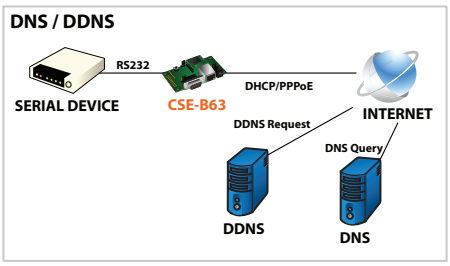
Power Consumption
75mA typical

Operating Temperature
-20℃ ~ +70℃

Storage Temperature
-40℃ ~ 85℃

System Diagram





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