CSE-H53
(Serial Ethernet Converter)

VOLTAGE 5V | EXTERNAL | ETHERNET NETWORK INTERFACE | RS232-C SERIAL INTERFACE | FIRMWARE Download TFTP | ezManager | TELNET

DNS HOST NAME LOOKUP | DDNS Dynamic DNS | TELCOM RFC2217 | SERVER CLIENT | ID certification MAC | -40℃ ~ 85℃ | RoHS Compliant

DNS/DDNS SUPPORT

10/100BASE-T

1x RS232

LED (TX/RX/LINK/STATUS/POWER)

Overview

CSE-H53 is a product for manufacturers who want to quickly and easily add Ethernet connectivity in their system.

This compact product helps your RS232 system get network connectivity with just serial connection at a reasonable price.

That is why we expact that CSE-H53 will be on of the best seller in the future.
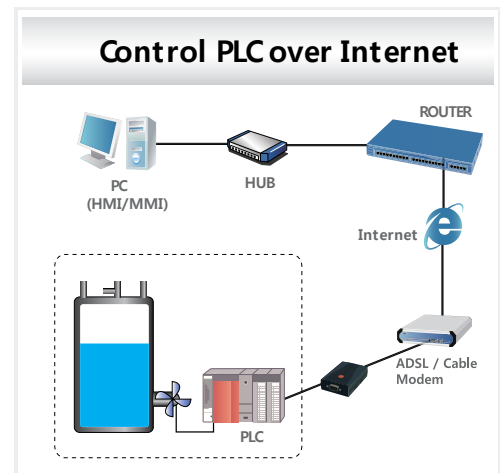
Applying this product, not only you can reduce cost and risk, but also you can shorten development time to add the network capability.

Because CSE-H53 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.

Highlights

- RS232 to Ethernet Converter
- Compact size : 87mm x 57mm x 24mm
- 10/100Base-T Ethernet, auto MDI/MDIX
- 1 x RS232 (D-SUB 9pin Male, up to 230.4Kbps)
- Wide range of operating temperature
   (-40℃ ~+85℃ , meet the industrial temperature range)
- Variety of monitoring status (debugging mode, ezManager, Telnet)
- 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)
- DDNS (dynamic IP address management by 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

Control PLC over Internet

ROUTER

PC (HMI/MMI)

HUB

Internet

ADSL / Cable Modem

PLC

Specifications

*Serial Physical Interface

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

Connector
9 pin D-sub male

*Serial Port Property

Baudrate
300 bps ～ 230,400 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)

Power
Red

Status
Yellow

Ethernet Link
Green

Ethernet RXD
Yellow

Ethernet TXD
Green

* Processors

CPU
ARM Cortex-M3 Core

ROM
64K bytes Flash Memory

RAM
16K bytes SRAM

* Management

ezManager
Configuration and Monitoring Tool through
Ethernet

Telnet
Telnet Login

AT Command
Configuring in ATC mode - Patent

* 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
89mm x 57mm x 24mm

Body Netweight
about 65g

* Operating Environment

Input Voltage
DC 5V ±0.5V

Power Consumption
120mA typical

Operating Temperature
-40℃ ~ 85℃

Storage Temperature
-40℃ ~ 85℃

* Approvals

CE
F690501/SP-EMY000240

KCC
SLS-CSE-H53 (A)

* Emissions

EN55022:2006 (Class A)
EN61000-3-2:2006
EN61000-3-3:1995/A1:2001/A2:2005
EN55024:1998/A1:2001/A2:2003

* Immunity

IEC61000-4-2:1995/A1:1998/A2:2001
IEC61000-4-3:2006
IEC61000-4-4:2004
IEC61000-4-5:2006
IEC61000-4-6:2007
IEC61000-4-11:2004

System Diagram

Serial Device Server

SERIAL DEVICE — RS232 — CSE-H53 — ETHERNET TCP/IP — HUB — INTERNET
ETHERNET TCP/IP — LAN

Serial Tunnelling

Client — CSE-H53 TCP Client Mode — LAN — CSE-H53 TCP Server Mode — Server

DNS / DDNS

SERIAL DEVICE — RS232 — CSE-H53 — DHCP/PPPoE — INTERNET
DDNS Request — DDNS
DNS Query — DNS