CSE-H20
(2 Port Serial Ethernet Converter)

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

SECURITY SSL | SECURITY SSH | DNS HOST NAME LOOKUP | DDNS Dynamic DNS | TELCOM RFC2217 | RoHS Compliant

DNS/DDNS SUPPORT

10/100BASE-T

2 X RS232

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

CE FC MIC

Overview

CSE-H20 is a serial-Ethernet converter which has two serial ports.

It adds network connectivity to your devices by processing TCP/IP protocol which is required to send and receive data over the Internet.
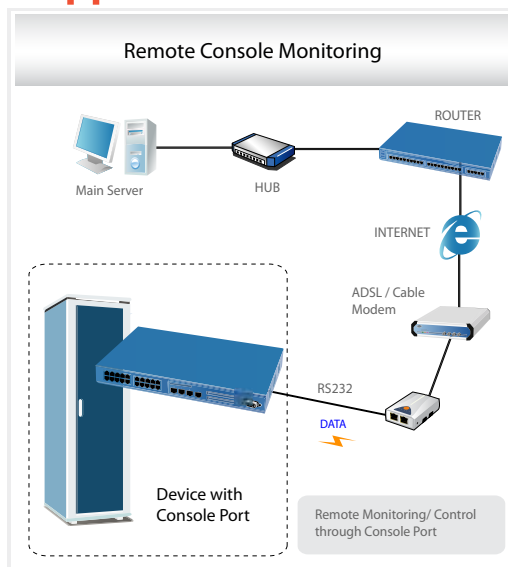
CSE-H20 also makes it possible to extend the distance of serial communications without any change of your legacy systems or replace direct serial connection.

This is a simple and easy way to bring the advantages of remote control and management to your serial devices not connected to a network.

By using CSE-H20, your devices can be remotely controlled, managed and monitored over the Internet.
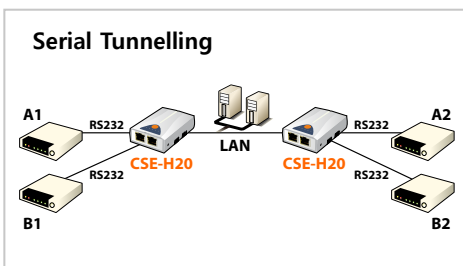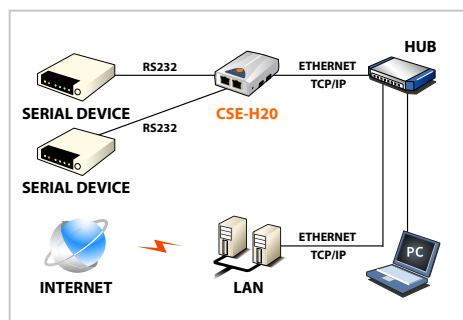
Because of its robust TCP/IP stack, it is ideal for various applications.

Highlights

- Remote Monitor and Control serial devices
- 10/100Base-T Ethernet, auto MDI/MDX
- RS232 x 2 (up to 230,400bps, RJ45 interface)
- Powerful security function : SSL3.0/TLS1.0, SSH2.0, IP filtering, Password
- Flexible configuration and network communication by 'AT Commands' (patent)
- Supports communication with variety of TCP/UDP hosts(TCP Server/Client, UDP)
- Variety of communication status checkup(debugging mode, ezManager, Telnet)
- Supports DHCP and PPPoE for xDSL and cable network
- Supports 'DNS' protocol for simple connection to the Internet
- Supports Dynamic DNS(DDNS) : available as Server with dynamic IP environment
- IP Change Notification : useful with dynamic IP environment
- Telnet COM Port Control Option (RFC 2217)
- Easy configuration utility via network for Windows OS (ezManager)
- Virtual COM Port Redirector 'ezVSP' for Windows OS(provided free of charge)
- Firmware is upgradable through network
- Environmentally-friendly RoHS compliant

Applications

Remote Console Monitoring

Main Server | HUB | ROUTER | INTERNET | ADSL / Cable Modem | RS232 | DATA

Device with Console Port

Remote Monitoring/ Control through Console Port

System Diagram

Serial Tunnelling

Specifications

*Serial Physical Interface
Serial Interface
2 x RS232 Port
RXD, TXD, RTS, CTS, DTR, DSR
±15KV ESD Protection

Connector
2 x RJ45 Connector

*Serial Port Property
Data Rate
300 bps ～ 230400 bps

Data Bits
5, 6, 7, 8 bits

Parity
None, Even, Odd

Stop Bit
1, 1.5, 2

Flow Control
RTS/CTS Hardware

* Network Physical Interface
Network Interface
RJ45 (10Base-T/100Base-TX Ethernet)
Ethernet Speed Auto Sense
1:1 or Cross-over Cable Auto Sense
1000 VAC Isolation

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

Security
SSL (Secure Socket Layer)
SSH (Secure Shell)
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)
UDP mode (U2S)

Additional Functions
Remote Debug Function

* Indicators(LEDs)
Power
Red

Status
Yellow, The current status

Ethernet Link
Red - 10M Ethernet,
Green - 100M Ethernet

Ethernet RXD
Yellow

Ethernet TXD
Green

COM RXD, COM TXD
Serial Port Status

* Processors
CPU
ARM7 Core

ROM
256K bytes Flash Memory

RAM
64K bytes SRAM

* Management
ezManager
Configuration and Monitoring Tool through Ethernet

Telnet
Telnet Login

AT Command
Configuring in ATC mode

* 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
87mm x 57mm x 24mm

Body Netweight
about 70g

* Operating Environment
Input Voltage
DC 5±0.5V

Power Consumption
200mA typical

Operating Temperature
0 ℃ ～ 55℃

* Approvals
CE
F690501/SP-EMC000979

FCC
STK-07-EMCG0122

MIC
SLS-CSE-H20 (A)

* Emissions
EN55022:1998/A1:2000/A2:2003 (Class A)
EN61000-3-2:2000
EN61000-3-3:1995/A1:2001
EN55024:1998/A1:2001/A2:2003

* Immunity
IEC61000-4-2:2001
IEC61000-4-3:2006
IEC61000-4-4:2004
IEC61000-4-5:2005
IEC61000-4-6:2006
IEC61000-4-11:2004

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