

# CSE-H21

## (Serial Ethernet Converter)



## Highlights

- Multi port RS232 to Ethernet Converter
- Durable steel case
- 10/100Base-T Ethernet, auto MDI/MDIX
- 2 x RS232 (D-SUB 9pin Male, up to 230.4Kbps)
- Electronically isolated serial ports (noise resistance)
- Wide range of operating temperature (-40°C ~ +70°C)
- Access Restriction : IP and MAC address filtering, Password
- Security Protocols : SSL3.0/TLS1.0, SSH2.0
- Flexible configuration and network communication by 'AT Commands' (patent)
- 4 Communication modes (TCP server, TCP client, AT Command and UDP)
- Variety of monitoring status (debugging mode, ezManager, Telnet)
- 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

## Overview

CSE-H21 is a product for manufacturers who want to quickly and easily add Ethernet connectivity in their system.

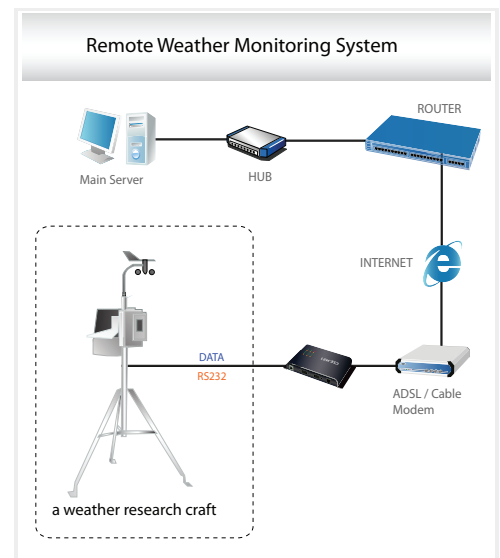
This compact product has two RS232 ports and helps your RS232 system get network connectivity with just serial connection.

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-H21 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.

With advantages such as stable performance, noise resistance and wide range of operating temperature, CSE-H21 is suitable for many industrial sites.

## Applications



## Specifications

### \*Serial Physical Interface

#### Serial Interface

2 x RS232 Port  
RXD, TXD, RTS, CTS  
Electronically Isolated  
±15KV ESD Protection

#### Connector

2 x DB9M Connector

### \*Serial Port Property

#### Data Rate

300 bps ~ 230400 bps

#### Data Bits

5, 6, 7, 8 bits

#### Parity

None, Even, Odd, Mark, Space

#### 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  
Surge protection

### \* 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)-  
Patent  
UDP mode (U2S)

#### Additional Functions

Remote Debug Function  
Sending MAC address Option

### \* Indicators(LEDs)

#### Power

Red

#### Status

Yellow, The current status

#### Ethernet Link

Green

#### Ethernet RXD

Yellow

#### Ethernet TXD

Green

#### COM Ports

TCP Connections, RXD, TXD, CTS, RTS

### \* 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-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

158mm x 90mm x 24mm

#### Body Netweight

about 340g

### \* Operating Environment

#### Input Voltage

DC 5±0.5V

#### Power Consumption

200mA typical

#### Operating Temperature

-40 °C ~ 70 °C

#### Storage Temperature

-40 °C ~ 85 °C

## System Diagram

