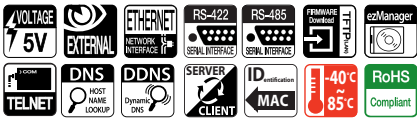


# CSE-H55

## (RS-422/485 Ethernet Converter)



## Overview

CSE-H55 is a product for manufacturers who want to quickly and easily add Ethernet connectivity in their system.

This compact product helps your RS422/485 system get network connectivity with just serial connection at a reasonable price.

Applying this product, not only you can reduce cost and risk, but also you can shorten development time to add the network capability.

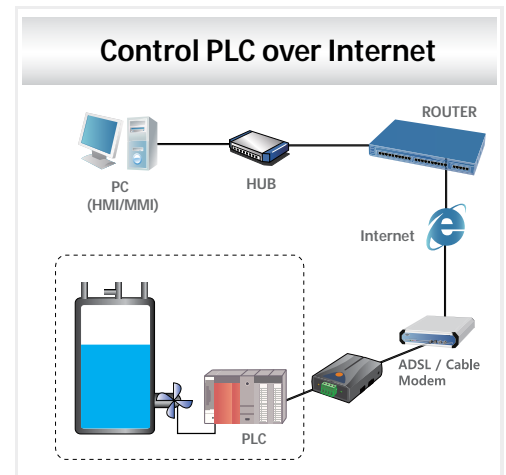
Because CSE-H55 allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are.

CSE-H55 is specially designed for users who have RS422 or RS485 devices.

## Highlights

- RS422/485 to Ethernet Converter
- Compact size : 94mm x 57mm x 24mm
- 10/100Base-T Ethernet, auto MDI/MDIX
- 1 x RS422/RS485 (Terminal Block, up to 230,400bps)
- Wide range of operating temperature (-40°C ~ +85°C, 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)
- Firmware upgrade through Network
- Powerful management software for Windows OS (ezManager)
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Environmentally-friendly RoHS compliant

## Applications



## Specifications

### \* Serial Physical Interface

**Serial Interface**  
RS422 / RS485  
TX+, TX-, RX+, RX- / TRX+, TRX-  
**Connector**  
5mm Pitch Terminal Block

### \* 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

### \* 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  
**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  
**Serial RXD**  
Yellow  
**Serial 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**  
94mm x 57mm x 24mm  
**Body Netweight**  
about 66g

### \* Operating Environment

**Input Voltage**  
DC 5V ±0.5V  
(Reverse Voltage Protection Function)  
**Protection**  
Over Current Protection  
Reverse Voltage Protection  
**Power Consumption**  
110mA typical  
**Operating Temperature**  
-40°C ~ 85°C  
**Storage Temperature**  
-40°C ~ 85°C

### \* Approvals

**CE**  
F690501/SP-EMY000313  
**KCC**  
SLS-CSE-H55 (A)

### \* Emissions

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

### 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

