

CSE-H55

(RS-422/485 Ethernet Converter)



Highlights

- Monitoring and Controlling remote serial devices
- 10/100Base-T Ethernet
- RS422/RS485 (Terminal Block)
- Industrial Temperature Specification (-40°C ~ +85°C)
- Powerful communication status checkup(debugging mode, ezManager, Telnet)
- Flexible configuration and network communication by 'AT Commands' (patent)
- Supports communication with variety of TCP/UDP hosts(TCP Server/Client, UDP)
- Supports DHCP and PPPoE for xDSL and cable network
- Supports 'DNS' protocol for simple connection to the Internet
- Supports Dynamic IP environment: DDNS, IP Change Notification
- 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

Overview

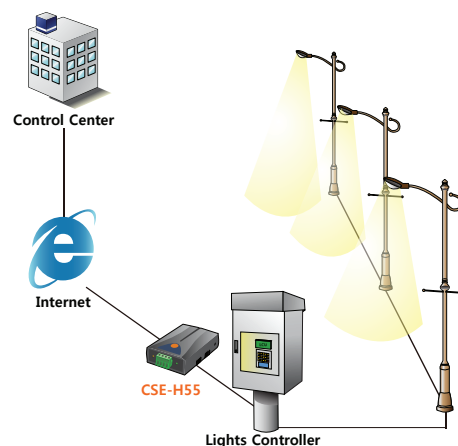
CSE-H55 is a cost-effective RS422/RS485 to Ethernet TCP/IP device server.

CSE-H55 supports industrial temperature specification(-40°C~+85°C) so it can be used in various temperature environment.

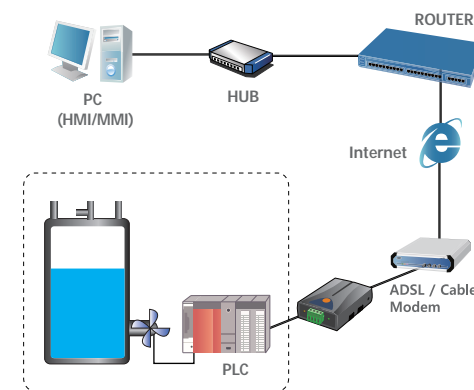
It embeds various powerful communication functions, debugging function, DNS, DDNS, and etc. So users can adapt it to various communication environments.

Applications

Streetlights Control System



Control PLC over Internet





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 \pm 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

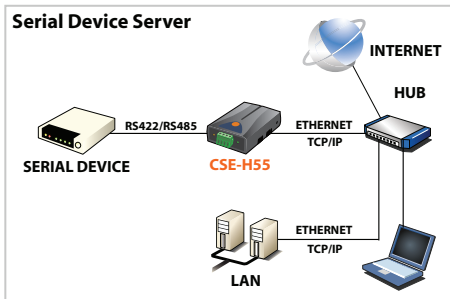
IEC61000-4-4:2004

IEC61000-4-5:2006

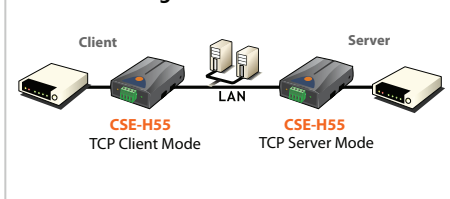
IEC61000-4-6:2007

IEC61000-4-11:2004

System Diagram



Serial Tunnelling



DNS / DDNS

