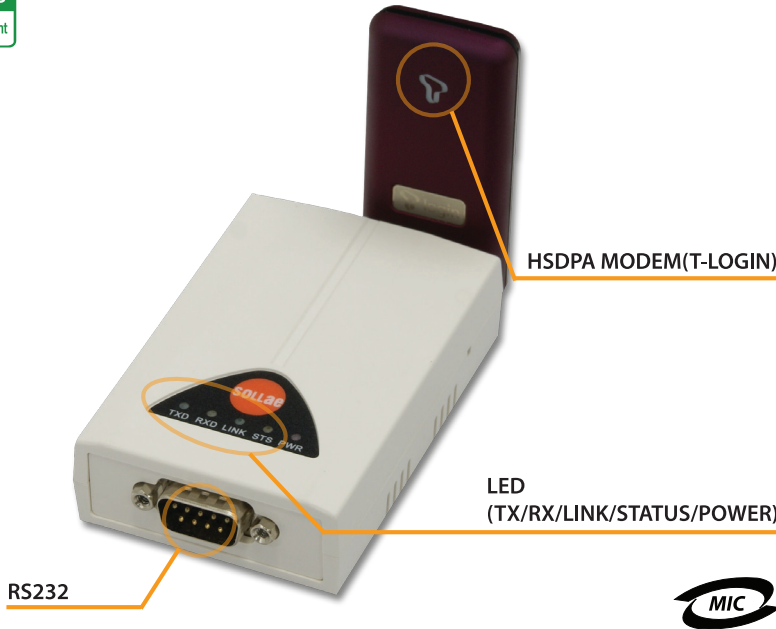
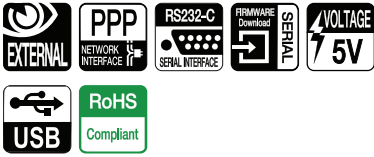


# CSP-H50

## (Serial PPP Converter)



### Overview

CSP-H50 is a product for manufacturers who want to quickly and easily embed PPP connectivity in their system.

This compact product helps your RS232 system get PPP connectivity with just serial connection through 2G or 3G network.

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

Because CSP-H50 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.

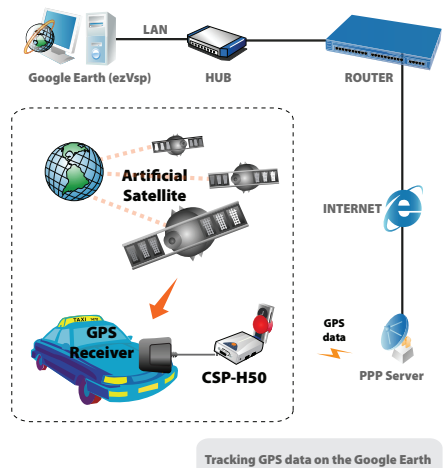
Since CSP-H50 uses 2G or 3G wireless network, it is available throughout the world regardless of place.

### Highlights

- RS232 to PPP network (HSDPA or CDMA) Converter
- 1 x RS232 (D-SUB 9pin Male, up to 115.2Kbps)
  - The average data rate : about 5K bps in the PPP network
- 1 x USB host (USB Communication Class for a CDMA or HSDPA modem)
- Dedicated commands to control CSP-H50
- Auto-Connection mode (TCP client with stored script)
- 2 Communication modes (TCP client and UDP)
- Server Redundancy (2 Peer's IP addresses)
- Firmware upgrade through Serial
- PPP(LCP/IPCP/PAP/CHAP) Support
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Environmentally-friendly RoHS compliant

### Applications

#### Vehicle location system using Google Earth



## Specifications

### \*Serial Physical Interface

#### Serial Interface

1 x RS232 Port  
RXD, TXD, RTS, CTS, DTR, DSR  
±15KV ESD Protection

#### Connector

DB9M Connector

### \*Serial Port Property

#### Baudrate

1200 bps ~ 230400 bps (fixed)

#### Data Bits

8 bits

#### Parity

None

#### Stop Bit

1 Bit

#### Flow Control

RTS/CTS Hardware

### \* Network Physical Interface

#### Network Interface

USB Host / USB Communication Class PPP

### \* Software Functions

#### Protocols

TCP, UDP, IP, ICMP, PPP

#### Security

PAP, CHAP

#### Communication Mode

TCP Client - Auto Mode

TCP server - Manual Mode

TCP client - Manual Mode

UDP - Manual Mode

ICMP (ping) - Manual Mode

### \* Processors

#### CPU

Atmel AVR

#### ROM

128K bytes Flash Memory

#### RAM

4K bytes SRAM

### \* Supplementary Software

#### ezTerm

Simple TCP/IP Communication Test Tool

#### uflash

Firmware Upgrade Utility for Windows

#### ezVSP

Serial to Network Virtual Driver for Windows

### \* Dimension

#### Size

89mm x 57mm x 24mm

#### Body Netweight

about 65g

### \* Operating Environment

#### Input Voltage

DC 5V

#### Power Consumption

44mA typical (except USB modem)

330mA typical

(including USB modem, It depends on USB modem)

#### Operating Temperature

0 °C ~ 55 °C

#### Storage Temperature

-40 °C ~ 85 °C

### \* Approvals

#### MIC:

SLS-CSP-H50(A)

### \* Emissions

KN22

### \* Immunity

KN61000-4-2

KN61000-4-3

KN61000-4-4

KN61000-4-5

KN61000-4-6

KN61000-4-11

## System Diagram

