

CSC-H64

(Serial to Ethernet/WLAN Converter)



Overview

CSC-H64 is a serial to Ethernet/WLAN converter that enables your serial devices to carry robust networking capabilities. This serial to Ethernet/WLAN converter offers 4 serial ports interfaced with RS232/RS422/RS485 and a frame delimiter for packet fragmentation. CSC-H64 comes preloaded with Soft AP so it can simply be linked to any devices with WLAN by operating as an AP. It eases network construction with mobile devices such as smartphones, tablet PCs and laptops where an AP is unavailable. Ensuring reliable operation with industrial temperature range of $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$, along with an overvoltage, reverse voltage and overcurrent protection circuit, makes this Serial to Ethernet/WLAN converter suitable for harsh industrial environments.

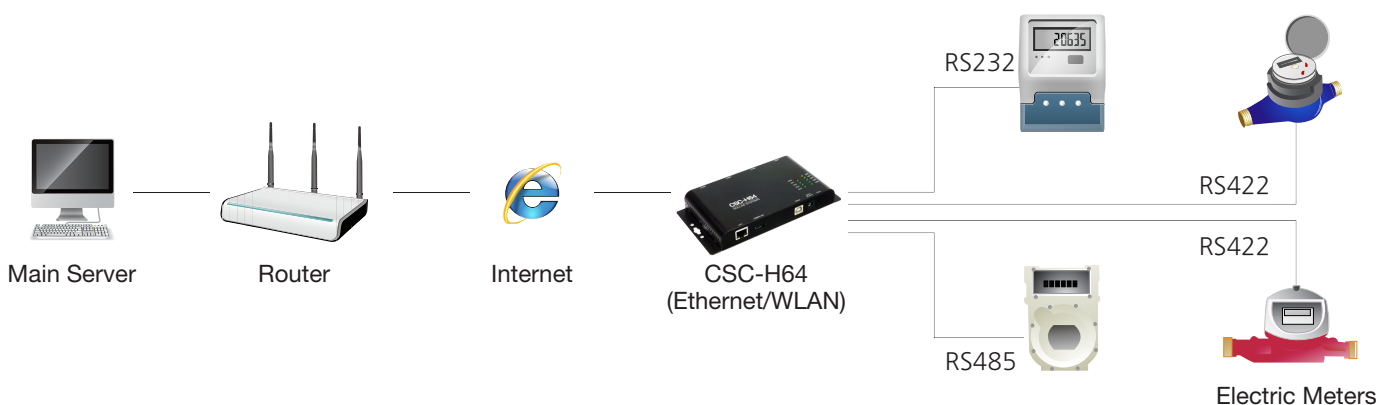
Highlights

- RS232/RS422/RS485 to Ethernet or Wireless LAN Converter (*USB Wireless LAN dongle required)
- 4 x RS232/RS422/RS485 (D-SUB 9pin MALE, up to 230,400bps)
- Ethernet 10Base-T or 100Base-TX (Auto-Sensing)
- IEEE 802.11 b/g
- Infrastructure and Ad-hoc network
- Soft AP (setting and connection through a smartphone or laptop without an AP available)
- IPv4 / IPv6 Dual Stack
- Security options (Password, WEP, WPA-PSK, WPA2-PSK)
- WPA Enterprise (EAP-TLS, EAP-TTLS, PEAP)
- Industrial temperature range ($-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$)

Icons



Applications



Specifications

Serial Physical Interface

Serial Interface	RS232 - RXD, TXD, RTS, CTS, DTR(Always ON), GND
	RS422 - TX+, TX-, RX+, RX-, GND with embedded 100K biasing resistors and TVS
	RS485 - TRX+, TRX-, GND with embedded 100K biasing resistors and TVS
Connector	9 pin D-sub male

Serial Port Properties

Baudrate	300bps~230,400bps
Data Bits	8 bits, 7 bits with parity
Parity	None, Even, Odd, Mark, Space
Stop Bit	1, 1.5, 2
Flow Control	RTS/CTS, Xon/Xoff

Network Interface

Network Interface	10Base-T or 100Base-TX (RJ45)
	Ethernet Speed Auto Sense
	1:1 or Cross-over Cable Auto Sense
Wireless LAN	Ralink RT3070/5370 USB wireless LAN dongle required on the USB A Connector
	IEEE 802.11b/g Wireless LAN
	WEP, WPA-PSK, WPA2-PSK, WPA-Enterprise (EAP-TLS, EAP-TTLS, PEAP)

USB Interface

USB A Connector	Ralink RT3070/5370 USB wireless LAN dongle for Wireless LAN
USB B Connector	For PC connection for serial configuration

Software Functions

Protocols	IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6
	TCP, UDP, IP, ICMP, ARP, TELNET
	DHCP, PPPoE, DNS, DDNS
	Telnet COM Port Control Option (RFC2217)
Security	SSL (Secure Socket Layer)
	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	Separator settings for packet fragmentation
	TCP Server/Client Mode
	Sending MAC address Option

Indicators (LEDs)	
Power	Red
Status	Yellow
Serial TX (TCP)	Green
Serial RX (TCP)	Green
Management	
ezManager	Configuration and Monitoring Tool through Network and Serial
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
Dimension	
Size	180mm x 90mm x 24mm
Operating Environment	
Input Voltage	DC 5V \pm 0.5V (DC jack or USB)
Current Consumption	235mA typical
Power Protection	Reverse Voltage Protection, Surge Protection
Operating Temperature	-40 °C ~ +85 °C (without USB Wireless LAN adapter)
Storage Temperature	-40 °C ~ +85 °C (without USB Wireless LAN adapter)