

Data Sheet

CSW-H85N | Serial to Wireless LAN Device Server



Overview

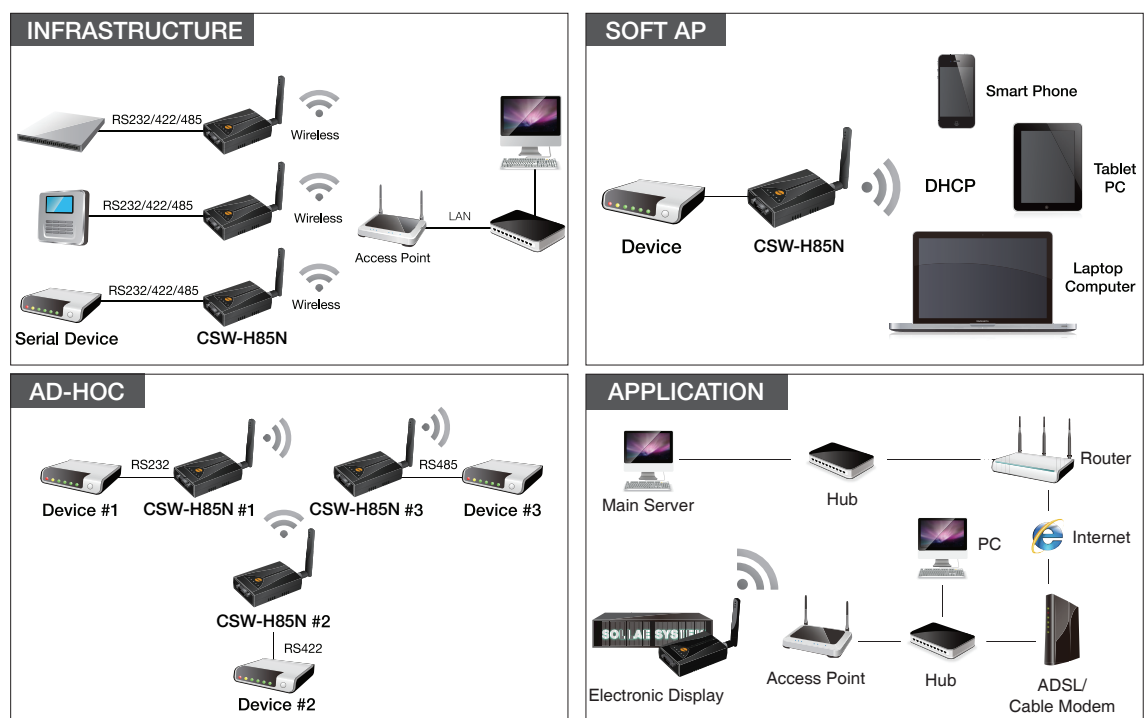
CSW-H85N is a serial to wireless LAN adapter that enables you to add wireless networking capabilities to your industrial equipment via RS232, RS422 and RS485. So by applying this serial to wireless LAN adapter, you can control and monitor your serial devices from anywhere in the world over wireless LAN. CSW-H85N comes preloaded with Soft AP so that it can simply be linked to any devices with wireless LAN by operating as a virtual AP. Thanks to this feature, it makes it easier for you to construct network with mobile devices such as smart phones, tablet PCs and laptops where wireless LAN network is inaccessible.

This serial to wireless LAN adapter offers enhanced security protocol, WPA Enterprise for business purpose to ensure high protection and reliability. With infrastructure and Ad-hoc network provided, this serial to wireless LAN adapter can be used for various wireless applications: Internet Signboard, Energy Management, Medical Monitoring

Features

- IEEE 802.11 b/g
- Soft AP (setting and connection through a smart phone or laptop without an AP available)
- Setting up main parameters (IP, SSID and security functions related to WLAN) on the Web
- Multi-Monitoring (maximum 4 channels)
- SSL (Secure Sockets Layer)
- IPv4 / IPv6 dual stack
- WPA Enterprise (EAP-TLS, EAP-TTLS, PEAP)
- Separator settings for packet fragmentation
- 2dBi dipole antenna, Reverse Polarity SMA connector for external antennas
- Serial to wireless LAN adapter with RS232/RS422/RS485 interface

System Diagram



Specifications

Serial Physical Interface	
Serial Interface	RS232 - RXD, TXD, RTS, CTS, DTR, DSR, GND
	RS422 - RX+, RX-, TX+, TX-, GND
	RS485 - TRX+, TRX-, GND
	±15KV ESD Protection
Serial Port Properties	
Baudrate	300bps ~ 230,400bps
Data Bits	8 bits, 7 bits with Parity
Properties	None, Even, Odd, Mark, Space
Stop Bit	1, 1.5, 2
Flow Control	RTS/CTS (Hardware), Xon/Xoff (Software)
Network Physical Interface	
Wireless LAN Interface	IEEE802.11b/g Wireless LAN
	Supplied with a dipole 2dBi Antenna
	Reverse Polarity SMA connector for external antennas
Software Functions	
Wireless LAN Mode	Ad-Hoc, Infrastructure
	Soft AP: WEP, Simple DHCP Server
Protocols	IPv4/IPv6 Dual Stack, ICMPv6/TCPv6/UDPv6
	TCP, UDP, IP, ICMP, ARP, TELNET
	DHCP, DNS, DDNS
	TELNET COM Port Control Option (RFC 2217)
Security	WEP, WPA-PSK, WPA2-PSK
	WPA-Enterprise: EAP-TLS, EAP-TTLS, PEAP
	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	Debug Function
	Multi Monitoring(Maximum 4 TCP connections simultaneously)
	TCP Server / Client Mode
	Separator settings for packet fragmentation
	Firmware upgrade via Network
	Sending MAC address Option
	Factory Reset
Indicators (LEDs)	
Power	Red
Status	Yellow, The current status
Wireless LAN Link	Green
Wireless LAN RXD	Yellow
Wireless LAN TXD	Green
Serial RXD	Yellow
Serial TXD	Green
Management	
ezManager	Configuration and Monitoring through Network and Serial
TELNET	TELNET Login
AT Command	Configuring in ATC Mode - Patent
Supplementary Software	
ezManager	Configuration Tool for Windows through Network and serial
ezVSP	Serial to Network Virtual Driver for Windows
ezTerm	Simple TCP/IP Communication Test Tool

Specifications

	Dimension
Size	88.5mm x 57.0mm x 23.0mm (Without an Antenna)
	Operating Environments
Input Voltage	DC 5±0.5V
Current Consumption	210mA Typical
Operating Temperature	-20°C ~ +60°C
Storage Temperature	-40°C ~ +60°C