EtherWAN

SW5400 Industrial 1-port Serial to Wireless Device Server
Serial to Ethernet Solutions

Overview

The SW5400 is a Wireless Serial Device Server that connects RS-232/RS-422/RS-485 serial devices to the industry standard 802.11b/g Wireless Network. Integrating the SW5400 into your serial device benefits in reducing cabling costs and increased mobility, or deploying a data transfer redundancy system. The SW5400 serial device server is suitable for connecting devices used in M2M automation applications such as industrial, building and point-of-sale in areas with high interference Ethernet cable is not practical or possible.

Features

- Supports RS-232/422/485 serial communication
- 15KV ESD surge protection of serial interfaces
- Supports IEEE 802.11b/g 54Mbps wireless Ethernet network for flexible Network Environment Design
- LED's indicator displays wireless signal strength Dual antennas design for harsh environment applications

- Built-in Hardware Watch Dog timer to monitor and ensure system fully functioning
- Supports Virtual COM, TCP server, TCP client, UDP, Pair Connection
- Multiple configuration interfaces console, telnet, built-in web server and windows-based utilities
- Metal housing with flexible DIN-Rail and panel installation design

Ordering Information

SW5400   Industrial 1-port Serial to Wireless Device Server

Power Supply: (Optional)
The Terminal Block type external power supplies are not included. Please order the following part numbers, as required:
DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X X=1,2,3,4,5

Installation Type: DIN Rail (mounting kit is included)
Optional Panel mount kit, part number: KP-AA54

The 2nd Antenna Type: (Optional)
5dBi Antenna, reverse SMA connector, part number: AN19

7dBi Antenna, reverse SMA connector with 200cm cable,
part number: AB94-T

Specifications

Technology

Serial Port:
- Interface: RS-232/422/485
- Connector: Terminal Block and Mini Din (Selectable by software)
- Line Protection: 12KV ESD

Serial Communication Parameters:
- Parity: None, Even, Odd, Space, Mark
- Data Bits: 5, 6, 7, 8
- Stop Bit: 1, 2
- Flow Control: None, RTS/CTS, Xon/Xoff
- Speed: 110 bps to 921.6Kbps

Ethernet Switch Port:
- Standard Compliance: IEEE802.3, IEEE802.3u
- Interface: 10/100BASE-TX
- Connector: RJ45
- Protection: Built-in 1.5 KV magnetic isolation

Wireless LAN:
- Standard Compliance: IEEE802.11b/g
- Modulation: CCK, DQPSK, DBPSK, OFDM (802.11g)
- TX Power 802.11g: 14dBm / 802.11b: 15dBm
- RX Sensitivity: -66dBm@54Mbps; -80dBm@11Mbps
- Transmission Rate: 802.11g up to 54Mbps; 802.11b up to 11Mbps
- Transmission Distance: up to 300m (@12Mbps, in open areas)
- Security:
- WEP 64-bit/128-bit data encryption
- WPA/WPA2-PSK compatible (Supported TKIP / AES encryption)
- Antenna Connector: 2 x Reverse SMA
- Network Mode: Infrastructure mode, Ad-Hoc mode

Protocols:
- ICMP, IP, TCP, UDP, DHCP Client, Telnet, DNS, SNMP, HTTP, SMTP, SNTP

Operation mode:
- Virtual COM, TCP server, TCP client, UDP, Pair Connection

Utilities:
- Windows utility for Windows 98/2000/XP/2003
- Virtual COM for Windows 98/2000/XP/2003

Management:
- Web server, Telnet console, Serial Console and Windows-based Utility

Power

Input:
- Input Voltage: 9 to 30VDC

Power Consumption:
- 4.5W Max. 0.375A@12VDC

Connector:
- Terminal Block

Mechanical

Casing:
- Metal case

Dimensions:
- 55mm (W) x 77.2mm (D) x 88mm (H)
- (2.17'' (W) x 3.04'' (D) x 3.46'' (H))

Weight:
- 0.4kg (0.88 lb)

Installation:
- DIN-Rail (Top hat type 35mm), Wall Mounting

Environment

Operating Temperature:
- -10°C to 60°C (14°F to 140°F)

Storage Temperature:
- -20°C to 85°C (-4°F to 185°F)

Ambient Relative Humidity:
- 5% to 95% non-condensing

Regulatory Approvals:

Emission Compliance:
- FCC Class A, CE Class A

Diagrams

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