



RoHS compliant

## Wireless Serial Server - 802.11g/b

■ ■ SW5002

- Metal housing with IP50 standard
- DIN-Rail mounting
- 15KV ESD protection for serial ports
- IEEE 802.11g/b 54Mbps wireless network connectivity
- Support UDP, TCP server and client protocols for Virtual COM and Tunnelling mode
- Support RS-232/422/485 serial mode by software selectable
- Provide special isolated model for photo-couple RS-485 Interface
- Configurable via console, telnet, built-in web server and Windows-based utilities
- Optional standard 2.4GHz High-gain antenna
- Upgradeable firmware via wired or wireless network

The Wireless Industrial Serial Server SW5002 is a gateway between TCP/IP via wireless and RS-232/422/485 communications. It allows almost any serial device to be connected to a new or existing wireless network. SW5002 offers wireless network interface (IEEE802.11g, 54Mbps) and two selectable serial ports. The new isolation model –SW5002-Sis(TB) has two photo-couple interfaces for RS-485 signaling connectivity.

By encapsulating serial data and transporting it over Wireless LAN; or for security requirements by WEP or WPA encryption. SW5002 offers full-duplex, bi-directional data transmission transparent between serial port and Wireless LAN.

In industrial and manufacturing automation fields, SW5002 is used for field devices to connect Wireless LAN through TCP/IP protocol directly. It is also specially designed for conjunction with PLCs, HMIs, Barcode Scanners, Data Terminals, Electronic Kanbans, Shop Floor Control Systems, and Pick-to-Light systems.

Terminal Server (Main Control Program Executed in this unit) makes most use of Wireless LAN (or Ethernet) connectivity to drive serial devices. It transforms whatever serial data received to TCP/UDP format then enables a host computer to drive the serial devices through the Wireless LAN and Ethernet.

Atop Virtual Com software provides existing Windows based applications to access serial devices by mapping to remote serial server over Wireless LAN (or Ethernet).

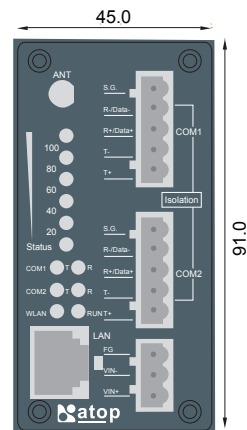
Flexible configuration options enable this unit to be setup over TCP/IP by Telnet, web browser, or other utility. Packed in a rugged Metal housing with DIN Rail-mountable case and 9~30VDC power input range by Terminal Block or DC-Jack connector, SW5002 is ideal for almost any industrial and manufacturing automation.

Specifications	
<b>System</b>	
CPU	32-bit 150MHz RISC Processor with MMU
Flash	2+8 MB ( 2MB for Bootloader )
RAM	32 MBytes SDRAM
EEPROM	2K Bytes
Watchdog	Hardware built-in
<b>Ethernet</b>	
Compliance	IEEE802.3
Port	1-port
Transmission Rate	10/100Mbps Auto-detection
Connector	RJ-45
Auto MDI/MDI-X	Yes
<b>WLAN</b>	
Compliance	IEEE802.11g/b
WEP	64-bit / 128-bit data encryption
WPA	WPA/WPA2-PSK compatible ( Supported TKIP / AES encryption )
Modulation	CCK, DQPSK, DBPSK, OFDM ( 11g )
Tx Power	11b: 15dBm / 11g: 14dBm
Rx Sensitivity	-66dBm@54Mbps / -80dBm@11Mbps
Transmission Rate	54Mbps ( max. ) with auto fallback
Transmission Distance	Up to 300 meters ( @12Mbps in open areas )
Topologies	Infrastructure, Ad-Hoc
Antenna connector	Reverse SMA
<b>Link Mode</b>	
TCP Server	Up to 4 connections or Virtual Com mode
TCP Client	Up to 2 destinations
UDP	Up to 4 destinations
<b>Serial</b>	
Interface	RS-232/422/485 software selectable
-SW5002-WgN1(TB)	
-SW5002-WgN1(DB)	
Interface-SW5002-WgN1Sis(TB)	RS-422/485 software selectable
<b>Ports</b>	
Baud Rate	110bps~921Kbps
Parity	None, Odd, Even, Mark, Space
Data Bits	5, 6, 7, 8
Stop Bits	1, 2
Flow Control	None, Software: Xon/Xoff, Hardware: RTS/CTS
<b>Connector</b>	
-SW5002-WgN1(TB)	
-SW5002-WgN1Sis(TB)	
Connector-SW5002-WgN1(DB)	9-pin D-Sub
Protection	15KV ESD
<b>Power</b>	
Input	DC 9 ~ 48V
Consumption	Max. 4.5 W (Tx Mode)
<b>Environment</b>	
Operating	0°C ~ 65°C ( 32° ~ 149°F )
Storage	-40° ~ 85°C ( -40°~ 185°F ), 5 ~ 95%RH
<b>Dimension</b>	
W x H x D	45mm x 91mm x 80mm
<b>Software</b>	
Configuration	Web Page / Telnet / Serial console / Windows utility
Virtual Com	Windows & Linux port redirection software
Support Protocol	ICMP, TCP(UDP) / IP, DHCP client, DNS, SNMP, NTP, SMTP, HTTP, Telnet
Ordering Information	
SW5002-WgN1(DB)	IEEE802.11g/b 2-port software selectable RS-232/422/485(D-Sub) wireless serial server with DC-jack lockable power connector
SW5002-WgN1(TB)	IEEE802.11g/b 2-port software selectable RS-232/422/485(Terminal Block) wireless serial server
SW5002-WgN1Sis(TB)	IEEE802.11g/b wireless 2-port software selectable RS-422/485(Terminal Block) photo isolationserial server

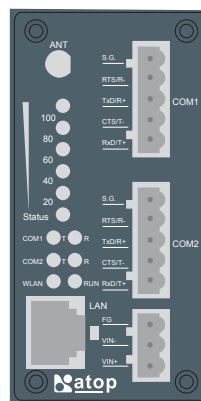
## Optional Accessories

<b>Antenna</b>	HG055: 5.5dBi reverse SMA connector with 180cm cable HG090 9dBi reverse SMA connector with 150cm cable
<b>RF Cable</b>	HG-C150AN SMA(R) to N-male 150cm cable HG-C600N N-male to N-female 600cm cable
<b>Power Adapter</b>	US315-12 US / EU: AC100 ~ 240V / DC 12V ; 5.08mm pitch terminal block (SW5002-WgN1(TB) / SW5002-WgN1Sis(TB)) UV315-12(EU/US): AC100~240V/DC12V 1.25A ; DC Jack lockable(SW5002-WgN1(DB))

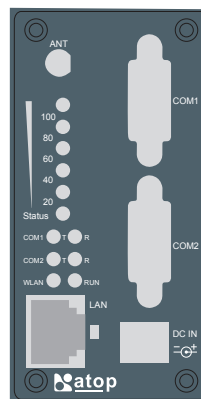
SW5002-WgN1Sis(TB)



SW5002-WgN1(TB)



SW5002-WgN1(DB)



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