"Device-Wireless" Networking Access

Wireless Serial Server - 802.11g/b

SW5001

- DIN-Rail metal housing with IP50 standard
- One serial port, RS-232/RS-485/RS-422 software selectable
- 15KV ESD protection for serial port

RoHS compliant

- 802.11g/b with WPA2-PSK security
- 10/100M Ethernet port for configuration and network redundancy
- Support UDP, TCP server and Client protocols for Virtual COM mode and Tunneling mode interface
- Configurable via Console, Telnet, built-in Web server and Windows-based utilities
- Bulit-in standard High-gain 4dBi antenna

The Wireless Industrial Serial Server SW5001 is a gateway between TCP/IP via wireless and RS-232/RS-485/RS-422 communications. It allows almost any serial device to be connected to a new or existing wireless network. SW5001 offers wireless network interface (IEEE802.11g/b, 54Mbps) and one serial port.

By encapsulating serial data and transporting it over Wireless LAN; or for security requirements by WEP or WPA2-PSK encryption. SW5001 offers full-duplex, bi-directional data transmission transparent between serial port and Wireless LAN.

In industrial and manufacturing automation fields, SW5001 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 Ethernet (or Wireless LAN) 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 Ethernet (or Wireless LAN).

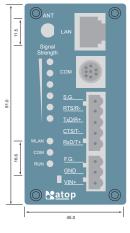
Flexible configuration options enable this unit to be setup over TCP/IP by Telnet, Web browser, or other utility. Packed in a rugged metal housing with DIN-Rail mountable case and 9~30VDC power input range, SW5001 is ideal for almost any industrial and manufacturing automation.



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SW5001

Specifications		Tunneling Mode
CPU	IDT RISC Processor with MMU	(with TCP or UDP protocol)
Flash Memory	10 MB (2MB for Bootloader)	
SDRAM	32 MBytes	Ad-Hoc Mode
Wireless LAN	Compliance for IEEE802.11g/b	
	WEP 64-bit/128-bit data encryption, WPA2-PSK compatible (TKIP/AES Encryption)	SW5001
	Modulation Type: CCK, DQPSK, DBPSK, OFDM (11g)	SW5001
	Tx Power 11b: 15dBm+5dBi/11g: 14dBm+5dBi	
	Rx Sensitivity: -66 dBm@54 Mbps, -80 dBm@11Mbps	PLC RS-232/RS-485
	Transmission Rate: 54 Mbps (max.) with auto fallback	
	Transmission Distance: Up to 300 meters (@12 Mbps, in open areas)	Touch Screen
	Topologies: Infrastructure, Ad-Hoc	
Ethernet	10/100M Auto-detection (for Redundancy & Configuration)	
	Protection: Built-in 1.5 KV magnetic isolation	
	Configuration with Telnet protocol	A
Serial Communication	Support RS-232/485/422 & software selection	SW5001
	Baud Rate: 1200bps~921Kbps	SW5001
	Parity Check: None, Odd, Even, Mark, Space	Card Reader RS-232/RS-485
	Data Length: 7/8 Bit	
	Stop Bit: 1/2	Card Reader
	Flow Control: None, Software: Xon/Xoff, Hardware: RTS/CTS	
	Protection: Terminal block or DB9 connector with 15KV ESD	
Software	Protocols: ICMP, IP, TCP, UDP, DHCP Client, Telnet, DNS, SNMP, HTTP, SMTP, SNTP	
	Utilities for Windows 98/2000/XP/2003, Virtual COM for Windows 98/2000/XP/2003	
Configuration	Web browser, Telnet Console, Windows Utility	Virtual COM Mode
Power Requirement	Input: DC 9~30V, Consumption: Max. 4.5W (Tx Mode)	(with TCP protocol)
Dimension	45mm x 91mm x 80mm (W x H x D)	
Environment	Operating: 0°C~60°C (32~140°F), 5~95% RH	PC (Virtual COM Installed)
	Storage: -20~70°C (-4~185°F), 5~95%RH	
Regulatory Approvals	EMC: FCC Class A, CE Class A, Safety: UL	6 A
Regulatory Approvals Ordering information (by	EMC: FCC Class A, CE Class A, Safety: UL	Ellenar
Ordering information (by	EMC: FCC Class A, CE Class A, Safety: UL	Ellanas
	EMC: FCC Class A, CE Class A, Safety: UL model)	AP
Ordering information (by SW5001-WgN1	EMC: FCC Class A, CE Class A, Safety: UL model)	AP SW5001 Infrastructure
Ordering information (by SW5001-WgN1 Optional Accessories	EMC: FCC Class A, CE Class A, Safety: UL model) Single-port IEEE802.11g wireless serial server with 4dBi antenna	



SW5001 Front Panel

10/100M Ethernet with RJ-45 Connector Wireless 2.4Ghz \bigcirc Antenna RS-232/422/485 Mini-Din Connector LED Indicators for Signal Strength \bigcirc 000 RS-232/422/485 Terminal Block Connector \bigcirc TxD/R+ LED Indicators Power Supply Input Connector WLAN 🔘 System Status RUN 🔘 GND O <u>Matop</u>



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