"Device-Wireless" Networking Access

RoHS compliant

Wireless Serial Server - 802.11g

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
- 802.11g/b with WPA 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, 54Mbps) and one serial port.

By encapsulating serial data and transporting it over Wireless LAN; or for security requirements by WEP or WPA 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.

DELMATION PRODUCTS BV

atop Technologies

Wireless Serial Server- 802.11g

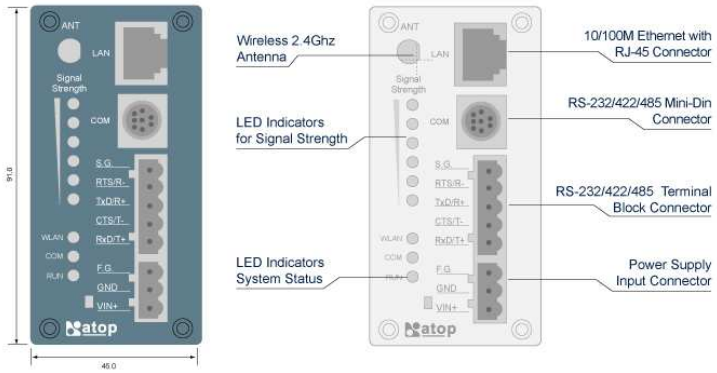
SW5001

Specifications	
CPU	IDT RISC Processor with MMU
Flash Memory	10 MB (2MB for Bootloader)
SDRAM	32 MBytes
Wireless LAN	Compliance for IEEE802.11b/g
	WEP 64-bit/128-bit data encryption, WPA compatible (TKIP/AES Encryption)
	Modulation Type: CCK, DQPSK, DBPSK, OFDM (11g)
	Tx Power 11b: 15dBm+5dBi/11g: 14dBm+5dBi
	Rx Sensitivity: -66 dBm@54 Mbps, -80 dBm@11Mbps
	Transmission Rate: 54 Mbps (max.) with auto fallback
	Transmission Distance: Up to 300 meters (@12 Mbps, in open areas)
	Topologies: Infrastructure, Ad-Hoc
Ethernet	10/100M Auto-detection (for Redundancy & Configuration)
	Protection: Built-in 1.5 KV magnetic isolation
	Configuration with Telnet protocol
Serial Communication	Support RS-232/485/422 & software selection
	Baud Rate: 1200bps~921Kbps
	Parity Check: None, Odd, Even, Mark, Space
	Data Length: 7/8 Bit
	Stop Bit: 1/2
	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
Power Requirement	Input: DC 9~30V, Consumption: Max. 4.5W (Tx Mode)
Dimension	45mm x 91mm x 80mm (W x H x D), Size down for piggyback design
Environment	Operating: 0°C~60°C (32~140°F), 5~95% RH
	Storage: -20~70°C (-4~185°F), 5~95%RH
Regulatory Approvals	EMC: FCC Class A, CE Class A, Safety: UL

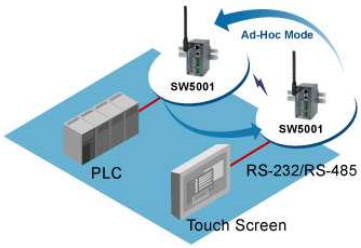
Ordering information (by model)	
SW5001-WgN1	Single-port IEEE802.11g wireless serial server 4dBi antenna

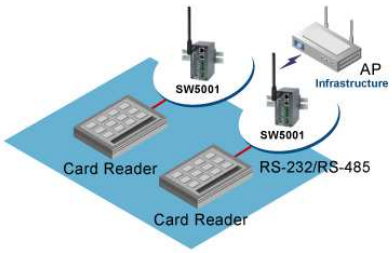
Optional Accessories	
AD15-24C(US)	AC100~240V/DC24V, US adapter
AD15-24D(EU)	AC100~240V/DC24V, EU adapter
HG055	5.5dBi antenna, SMA (R) female connector with 180cm cable
HG110	11dBi antenna, SMA (R) female connector with 60cm cable
HG110-C600N	N male to N female connector with 600cm cable

SW5001 Front Panel

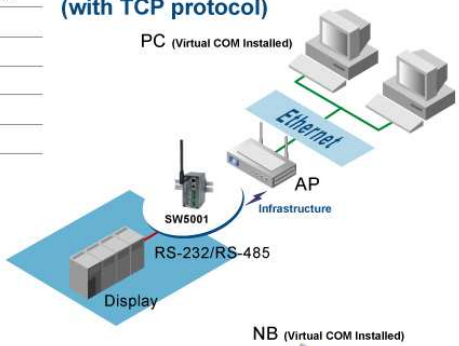


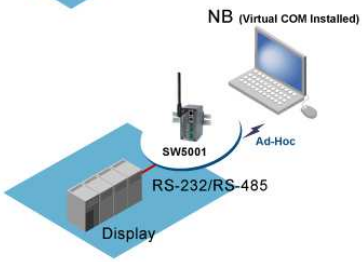
Tunneling Mode (with TCP or UDP protocol)





Virtual COM Mode (with TCP protocol)





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