



WIRELESS DEVICE  
SERVER



# DIGI CONNECT® WI-SP

The industry's first secure 802.11b wireless device server delivers leading network-to-serial connectivity and strong WPA2/802.11i security

The introduction of wireless technology into the rapidly emerging world of fully networked electronic devices creates a new dimension of device and software collaboration that complements existing wired infrastructures.

Built on Digi's leading 32-bit NET+ARM technology, the Digi Connect Wi-SP wireless device server delivers a true plug-and-play device networking solution that combines the benefits of secure wireless networking technology with proven serial port connectivity. It is the ideal choice in retail, warehouse, healthcare and medical applications, allowing you to respond immediately to the ever-changing requirements and challenges that are crucial to the success of your business.

Whenever sensitive and business-critical data is involved, network security is a key requirement. The significant benefits of wireless technology often come with potential risks, and choosing the right product provides you with peace-of-mind and a competitive edge.

The Digi Connect Wi-SP also offers product customization options, intelligent remote management and monitoring capabilities through Digi Remote Manager™.

## BENEFITS

- Compact enclosure design with integrated mounting tabs
- Fully switch-selectable RS-232/422/485 serial interface
- Flexible 9-30 VDC power input
- Wireless 802.11b with data rates up to 11 Mbps
- Industry's first secure wireless device server solution supporting enterprise-class WPA2/802.11i security
- Easy-to-use Digi plug-and-play firmware offers complete serial-to-network connectivity and customization
- Strong SSL/TLS encryption with NIST-certified AES encryption for security sensitive environments
- Digi's patented RealPort® technology for COM/TTY port redirection and control

## RELATED PRODUCTS



Digi Connect®  
SP



PortServer®  
TS



Portserver®  
TS MEI

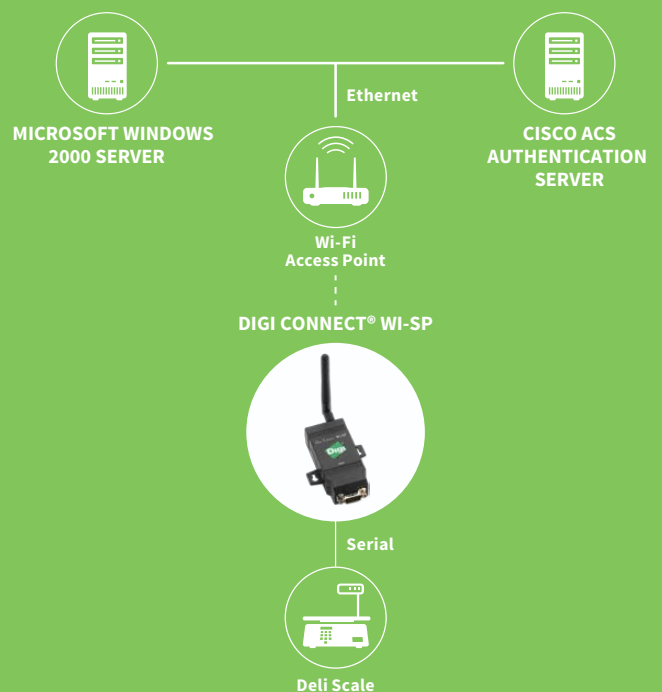


ConnectPort®  
TS 8/16



RealPort®

## APPLICATION EXAMPLE



SPECIFICATIONS		Digi Connect® Wi-SP	
FEATURES			
MANAGEMENT		HTTP/HTTPS configuration	
PROTOCOLS		TCP/UDP Socket Services, Telnet, Rlogin, Advanced Digi Discovery Protocol (ADDP), SNMP, SSL/TLS	
SOFTWARE		Patented RealPort® COM/TTY port redirection for Microsoft Windows®, UNIX and Linux	
ENCRYPTION		SSL/TLS based: DES (56-bit), 3DES (168-bit), AES (128/256-bit)	
WEB INTERFACE		Customizable with optional Java applet support (File system w/512 kb user space)	
OTHER		Robust on-board TCP/IP stack with built-in web server; Dynamic DNS support (DHCP Option 12); Pre-defined and custom device profiles; Modem emulation and port logging; Data pattern event notification via email/SNMP traps; Intelligent SNMP device management	
HARDWARE			
PROCESSOR TYPE		32-bit NET+ARM high-performance RISC processor (NS7520 55 MHz)	
MEMORY BASE POPULATION		4 MB Flash and 16 MB RAM	
STATUS LEDS		Power, Network Link, Activity	
DIMENSIONS (L X W X H)		4.188 in x 1.680 in x 0.999 in (10.64 cm x 4.267 cm x 2.537 cm)	
OTHER		5/6/7/8 data bits; 1/1.5/2 stop bits; None/even/odd parity; Full signal support with software/hardware flow control	
INTERFACES			
SERIAL			
PORT		RS-232/422/485 (switch selectable)	
CONNECTOR		DB-9M	
THROUGHPUT		Up to 230,400 bps with automatic fallback	
CONFIGURATION		Command line, XML Remote Command Interface (RCI)	
WIRELESS			
STANDARD		IEEE 802.11b	
FREQUENCY		2.4 GHz	
DATA RATE		Up to 11 Mbps with automatic fallback	
MODULATION		CCK (11/5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)	
TRANSMIT POWER		16 dBm typical	
RECIEVER SENSITIVITY		-82 dBm @ 11 Mbps	
ANTENNA CONNECTOR		1 x RP-SMA	
WLAN SECURITY			
WEP (WIRED EQUIVALENT PRIVACY)		64/128-bit encryption (RC4)	
WPA/WPA2/802.11I		128-bit TKIP/CCMP encryption Enterprise mode (802.1X): Dynamic WEP, LEAP (WEP only), PEAP, EAP-TLS, EAP-TTLS PEAP/MSCHAPv2, PEAP/TLS, PEAP/GTC, PEAP/OTP, PEAP/MD5, EAP-TTLS/EAP-MD5, EAP-TTLS/EAP-GTC, EAP-TTLS/EAP-OTP, EAP-TTLS/EAP-MSCHAPv2, EAP-TTLS/EAP-TLS, EAP-TTLS/MSCHAPv2, EAP-TTLS/MSCHAP, EAP-TTLS/PAP, EAP-TTLS/CHAP Enterprise and Pre-Shared Key (PSK) mode	
POWER REQUIREMENTS			
POWER SUPPLY		9-30 VDC @ 450 mA	
ENVIRONMENTAL			
STORAGE TEMPERATURE		-40° C to +90° C (-40° F to 194° F)	
OPERATING TEMPERATURE		-20° C to +65° C (-4° F to 149° F)	
RELATIVE HUMIDITY		5% to 90% (non-condensing)	
ALTITUDE		12,000 feet (3658 meters)	
REGULATORY APPROVALS			
SAFETY/EMISSIONS/IMMUNITY		FCC Part 15, Subpart B; ICES-003; EN55022:1998, Class B; EN301 489-3:2002, Class B; FCC Part 15, Subpart C, Class B; Canada RSS 210 (Wireless); AS/NZS CISPR 22:2002, Class B; VCCI V.3/2001.04, Class B; EN 300 328 V1.4.1 2003-04; EN55024; EN 301 489-3 V.1 4.1:2002; IEC/EN 60950-1 (2001); UL/CUL 60950-1	

PART NUMBERS	DESCRIPTION
DC-WSP-01-S	Digi Connect Wi-SP (single-unit pack w/power supply and dipole antenna)
DC-WSP-01-S-W	Digi Connect Wi-SP (single-unit pack w/power supply and dipole antenna) (International)

FOR MORE INFORMATION  
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