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

APPLICATION EXAMPLE

MICROSOFT WINDOWS 2000 SERVER

Ethernet

CISCO ACS AUTHENTICATION SERVER

Wi-Fi Access Point

DIGI CONNECT® WI-SP

Serial

Deli Scale

RELATED PRODUCTS

Digi Connect® SP

PortServer® TS

Portserver® TS MEI

ConnectPort® TS 8/16

RealPort®
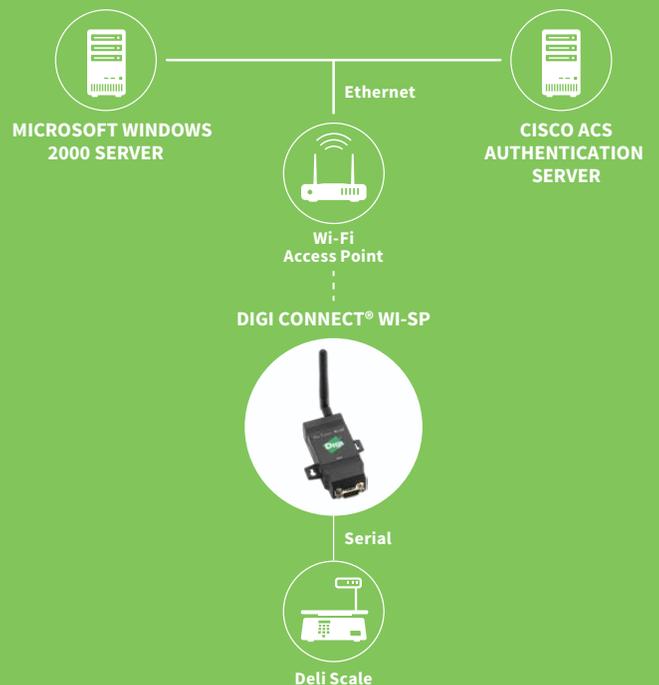
SPECIFICATIONS	Digi Connect® Wi-SP
FEATURES	
MANAGEMENT	HTTP/HTTPS configuration
PROTOCOLS	TCP/UDP Socket Services, Telnet, Rlogin, Advanced Digi Discovery Protocol (ADDP), SNMP, SSL/TLS
SOFTWARE	Patented RealPort® COM/TTY port redirection for Microsoft Windows®, UNIX and Linux
ENCRYPTION	SSL/TLS based: 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

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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
PLEASE VISIT WWW.DIGI.COM

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