

Digi Connect® Wi-SP

Wireless Device Server

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



Overview

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. For example, you may dynamically change and improve the layout of an existing retail or factory floor without the need for the time-consuming and costly installation and without the inflexibility of wired network infrastructures.

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 is the industry's first wireless device server to provide enterprise-class wireless security through a complete set of strong encryption and authentication services that are compliant with the WPA2 and 802.11i standards.

The Digi Connect Wi-SP also offers unique features such as an easy user interface, product customization options, intelligent remote management and monitoring capabilities through the Digi Connectware® Manager device management software, and standard management interfaces including SNMP.

Application Highlight



Features/Benefits

- Compact enclosure design with integrated mounting tabs
- Fully switch-selectable RS-232/422/485 high-speed serial interface
- Flexible 9-30VDC power input
- Wireless 802.11b network interface 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 unique product customization flexibility
- 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



Features/Specifications

	HARDWARE		LEDS		WIRELESS INTERFACE
	<ul style="list-style-type: none"> 32-bit NET+ARM high-performance RISC processor (NS7520 55 MHz) 4 MB Flash and 16 MB RAM Switch-selectable RS-232/422/485 interface (DB-9M) <ul style="list-style-type: none"> Throughput up to 230,400 bps 7/8 data bits 1/1.5/2 stop bits None/even/odd parity Full signal support with software/hardware flow control 802.11b wireless LAN interface: Infrastructure (BSS) Flexible 9-30VDC power supply 		<ul style="list-style-type: none"> Power Network link Activity 		<ul style="list-style-type: none"> 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 Receive sensitivity: -82 dBm @ 11 Mbps Antenna connector: 1 x RP-SMA
	SOFTWARE FEATURES		WIRELESS SECURITY		ENVIRONMENTAL
	<ul style="list-style-type: none"> Robust on-board TCP/IP stack with built-in web server Universal IP address assignment <ul style="list-style-type: none"> Static IP, DHCP, Auto-IP Dynamic DNS support (DHCP Option 12) Secure web user interface (HTTP/HTTPS) with context-sensitive online help Pre-defined and custom device profiles Customizable web interface with optional Java applet support <ul style="list-style-type: none"> File system w/512 kb user space Telnet command line interface Modem emulation and port logging Serial configuration interface <ul style="list-style-type: none"> Command line, XML Remote Command Interface (RCI) User-defined network service/port configuration <ul style="list-style-type: none"> HTTP/HTTPS, Telnet, Rlogin, Advanced Digi Discovery Protocol (ADDP), SNMP, RealPort, SSL/TLS, TCP/UDP TCP/UDP forwarding characteristics <ul style="list-style-type: none"> Bytes, idle time, data pattern User-configurable TCP/UDP Socket ID Data pattern event notification via email/SNMP traps Intelligent SNMP device management Strong SSL/TLS based encryption <ul style="list-style-type: none"> DES (56-bit), 3DES (168-bit), AES (128/256-bit) Patented RealPort COM/TTY port redirection for Microsoft Windows®, UNIX and Linux 		<ul style="list-style-type: none"> WEP (Wired Equivalent Privacy) <ul style="list-style-type: none"> 64/128-bit encryption (RC4) WPA/WPA2/802.11i <ul style="list-style-type: none"> 128-bit TKIP/CCMP encryption 802.1X EAP authentication <ul style="list-style-type: none"> 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 		<ul style="list-style-type: none"> 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		POWER REQUIREMENTS		DIMENSIONS
			<ul style="list-style-type: none"> 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 		<ul style="list-style-type: none"> 9-30VDC @ 450 mA
	MODEL.....PART NUMBERS				
Model		North America	International		
Digi Connect Wi-SP		DC-WSP-01-S	DC-WSP-01-S-W		

Please visit our website for a complete list of available part numbers.

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Digi International
Worldwide HQ
877-912-3444
952-912-3444

Digi International
France
+33-1-55-61-98-98
www.digi.fr

Digi International
Japan
+81-3-5428-0261
www.digi-intl.co.jp

Digi International
India
+91-80-4287-9887

Digi International
Singapore
+65-6213-5380

Digi International
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+86-21-5150-6898
www.digi.cn

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