



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.

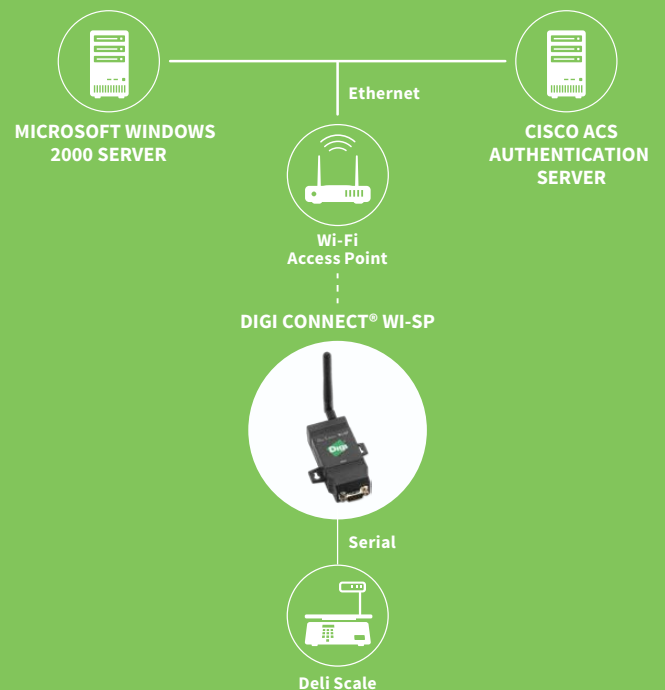
Whenever sensitive and business-critical data is involved, network security is a key requirement. The significant benefits of wireless technology often come with potential risks, and choosing the right product provides you with peace-of-mind and a competitive edge.

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

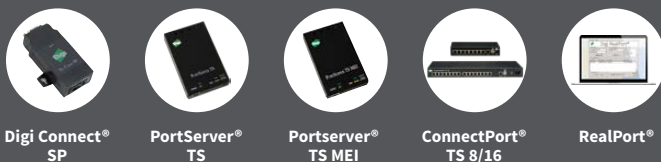
BENEFITS

- 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

APPLICATION EXAMPLE



RELATED PRODUCTS



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 |
| RECEIVER 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
PLEASE VISIT WWW.DIGI.COM

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DIGI INTERNATIONAL WORLDWIDE HQ
877-912-3444 / 952-912-3444 / www.digi.com

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 SINGAPORE
+65-6213-5380

DIGI INTERNATIONAL CHINA
+86-21-50492199 / www.digi.com.cn



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