



EXTENDED SAFETY
WIRELESS ENABLED
TERMINAL SERVER



DIGI CONNECT® WS

Extended safety terminal server is designed for serial over network applications that require 60601 certified solutions

Digi Connect WS is intended to be used with a data acquisition system to connect to RS-232 serial devices and send data from these serial devices to the data acquisition system without adjusting or manipulating the format. The extended safety terminal server complies with IEC 60601-1 3rd edition and can be used in environments requiring this level of testing, including being placed within the patient environment when used as part of a medical electrical (ME) system.

The Digi Connect WS provides serial over IP connectivity for the environment that connects RS-232 devices to an information system network. It is available in three models

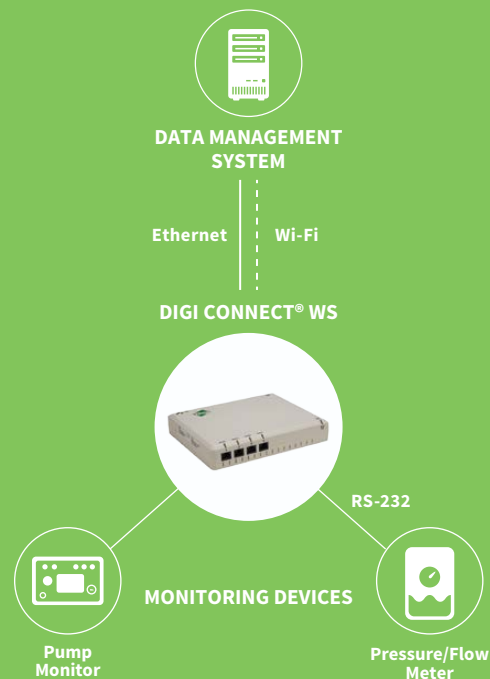
with one, four, or eight RS-232 serial ports. Digi Connect WS supports 10/100 Ethernet and 802.11a/b/g/n compatible Wi-Fi.

Independent socket connectivity for each port gives system administrators a high level of control over networked serial devices.

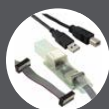
BENEFITS

- 1/4/8-port RS-232 serial-to-network connectivity
- IEC 60601 3rd edition compliant
- Power over Ethernet support
- Wi-Fi Alliance Certified, WPA & WPA2 personal and enterprise, AES, TKIP, 802.11w, 802.11d, 802.11h, PMF
- VESA mountable
- TCP Socket Connectivity to individual devices
- HTTPS supported for additional security
- Ports may be connected to from different systems, OS independent

APPLICATION EXAMPLE



RELATED PRODUCTS



Accessories
and Cables



Enterprise
Support

SPECIFICATIONS		Digi Connect® WS	
FEATURE			
MANAGEMENT		HTTPS, HTTP, SNMP, Optional management through Digi Remote Manager SM	
PROTOCOLS		HTTP, HTTPS, TCP, SNMP	
SECURITY		SSL, TLS	
LEDS		Power, Ethernet, Serial, Wi-Fi, Find Me	
DIMENSIONS (LENGTH X WIDTH X HEIGHT)		Approximately 200 mm x 160 mm x 40 mm (4 and 8 port), 140 mm x 120 mm x 40 mm (1 port)	
WEIGHT		1 kg (4 and 8 port), 0.5 kg (1 port)	
MOUNTING		VESA 75, Direct and Arm	
INTERFACES			
SERIAL PORTS		1, 4, or 8 ports	
SERIAL CONNECTOR		RJ-45 RS232	
ETHERNET PORTS		1	
ETHERNET PHYSICAL LAYER		10/100	
WI-FI		802.11 a/b/g/n 2.4 and 5 g (can be disabled)	
WI-FI MODES		Wi-Fi Alliance Cert, WPA & WPA2 personal and enterprise, AES, TKIP, PMF, 802.11d, 802.11h, 802.11w	
POWER REQUIREMENTS			
POWER CONSUMPTION		WS 1: 0.1 A RMS MAX WS 4/8: 0.25 A RMS MAX	
POWER INPUT		100-240 VAC IEC 60320 C8 Connector	
POWER OVER ETHERNET		802.3af	
POWER SUPPLY		60601-1 Class II	
SURGE PROTECTION		Per IEC 61000-4-5: ±1 kV Per IEC 61000-4-4: ±2 kV for power supply lines (EFT)	
ENVIRONMENTAL			
OPERATING TEMPERATURE		+10° C to +40° C	
STORAGE TEMPERATURE		-20° C to +40° C	
RELATIVE HUMIDITY		10% to 90% non-condensing	
ALTITUDE		2000 meters	
SERIAL PORT PROTECTION (ESD)		Per IEC 61000-4-2 ±6 kV contact; ±8 kV air	
STANDARDS			
SAFETY		EN 60601-1: 2005 + corr.1 (2006) + corr.2 (2007) + A1 :2013, IEC 60601-1-2 Ed3 : 2007, IEC 60601-1-6: 2006 + A1: 2013	
EMISSIONS		FCC 47 CFR Part 15 B and C, ICES-003, EN 301489-1, EN 301489-17, EN 300328, EN 62311 Wi-Fi/RF: EN 301 489-1 v1.9.2; EN 301 489-17 v2.1.1; EN 300 328 v1.8.1; EN 62311: 2008; RSS-210	
IMMUNITY		EN55024, ICES-003	

PART NUMBERS		DESCRIPTION	
DC-WS-1-INT		Digi Connect WS, 1 RS232 serial port	
DC-WS-4-INT		Digi Connect WS, 4 RS232 serial ports	
DC-WS-8-INT		Digi Connect WS, 8 RS232 serial ports	

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