



SERIAL SERVER WITH
GALVANIC ISOLATION



DIGI CONNECT ES (EXTENDED SAFETY)

Extended safety terminal server designed for serial over Ethernet applications that require isolation on and between ports

Digi Connect® ES provides serial over Ethernet connectivity. It is IEC 60601 3rd Edition compliant and consists of four or eight galvanic isolated RS-232 serial ports, with a 10/100 Mbps network interface and optional Ethernet switch. Digi Connect ES is used in applications that provide Ethernet connections from serial devices to the central data management system.

Galvanic isolation provides extended electrical safety. There is no electrical path for current to earth ground, ensuring no electrical shock when making physical contact with the Digi Connect ES.

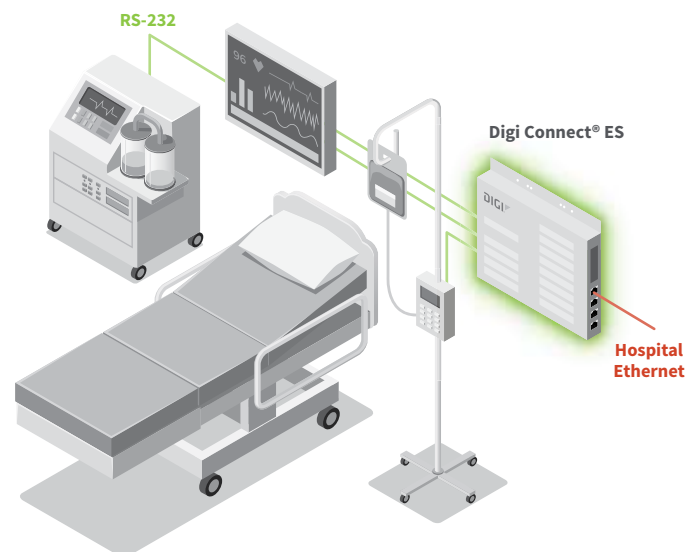
There is no electrical path from port to port, ensuring a ground fault will not affect the operation of the Digi Connect ES or the operation of any device connected to it.

Digi's patented RealPort technology makes it possible to establish a connection between the host and a networked serial device by creating a local COM or TTY port on the host computer. Incoming/outgoing and Telnet sessions on each port give system administrators a high level of control over networked serial devices.

BENEFITS

- 4/8-port RS-232 serial-to-network connectivity
- IEC 60601 3rd Edition compliant
- Galvanic isolation on all ports
- Wall mountable
- Patented Digi RealPort® technology provides local serial port functionality
- RealPort with encryption available for SSL-based protection for additional security
- Ports may be shared between multiple hosts running different operating systems

APPLICATION EXAMPLE



RELATED PRODUCTS



Digi Connect
EZ® 8



Digi Connect
EZ® Mini



Digi Connect
EZ® 16



Digi AnywhereUSB®
Plus 2



Cables and
accessories

SPECIFICATIONS		Digi Connect ES	
FEATURES			
MANAGEMENT		HTTP/HTTPS, CLI or Telnet, optional secure enterprise management via Digi Remote Manager®	
PROTOCOLS		UDP/TCP, DHCP, Extended Telnet RFC 2217, Telnet, Reverse Telnet, Rlogin & Auto Connect, TFTP	
SECURITY		SSL, SSL/TLS, SSHv2, FIPS 197 (serial ports), SNMPv2	
SOFTWARE		Device-initiated patented RealPort® COM port redirector and RFC 2217, Python scripting, custom development environment	
STATUS LEDS		Power, locator, serial and Ethernet link/activity	
OPERATING SYSTEMS		Microsoft Windows® 7, 8, 8.1, 10 and Windows Server® 2012, 2016, 2019; and Linux® Note: TCP/UDP socket services are operating system independent.	
DIMENSIONS (L X W X D)		23.5 cm x 26.9 cm x 4.20 cm (9.30 in x 10.60 in x 2.10 in)	
WEIGHT		3 1.34 kg (0 lb)	
INTERFACES			
SERIAL			
PORTS		4/8 separately isolated RS-232 ports (2.5 kV)	
THROUGHPUT		Up to 230 kbps	
SIGNAL SUPPORT		TXD, RXD, RTS, CTS, DTR, DSR, DCD	
ETHERNET			
PORTS		1 uplink, optional 4-port switch	
PHYSICAL LAYER		10/100 Base-T separately isolated (1.5 kV)	
MODE		Full or half duplex	
POWER REQUIREMENTS			
POWER SUPPLY		Internal 100-240 VAC, 50-60 Hz 0.2 A max	
PRODUCT SURGE PROTECTION (ESD)		4 kV burst (EFT) per EN61000-4-4, 2 kV surge transient per EN61000-4-5 4 kV isolation input to output 2 kV surge per EN61000-4-5	
ENVIRONMENTAL			
OPERATING TEMPERATURE		0 °C to 55 °C (32 °F to 130 °F)	
STORAGE TEMPERATURE		-30 °C to 85 °C (-22 °F to 185 °F)	
RELATIVE HUMIDITY		5 to 95% (non-condensing)	
SERIAL PORT PROTECTION (ESD)		15 kV human body model	
STANDARDS COMPLIANCE			
EMISSIONS		EN 55011, EN 55022, CISPR 11, CISPR 22	
SAFETY		EN 60950-1, IEC 60950-1, EN 60601-1, EN 60601-1-2, IEC 60601-1	
IMMUNITY		EN 55024, CISPR 24	

PART NUMBERS	DESCRIPTION
DC-ES-4SB-EU	Digi Connect ES 4SB - 4 ports (International)
DC-ES-4SB-SW-EU	Digi Connect ES 4SB w/ Switch - 4 ports (International)
DC-ES-8SB-EU	Digi Connect ES 8SB - 8 ports (International)
DC-ES-8SB-SW-EU	Digi Connect ES 8SB w/ Switch - 8 ports (International)

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