



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<sup>®</sup> 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.

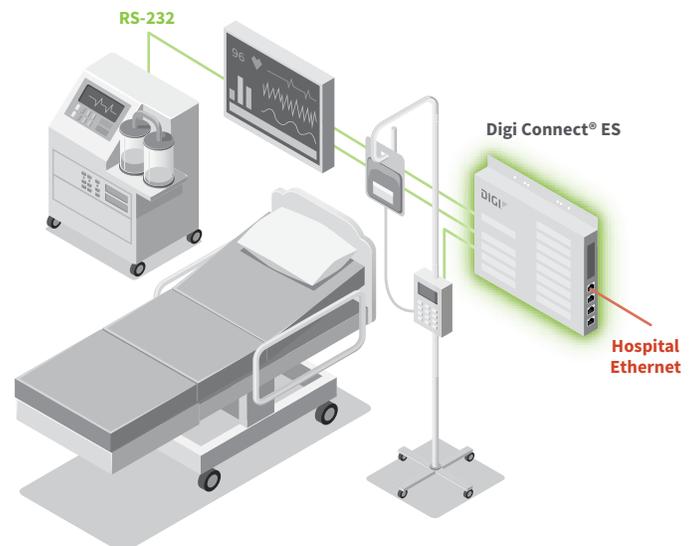
There is no electrical path from port to port, ensuring a ground fault will not affect the operation of the Digi Connect ES or the operation of any device connected to it.

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<sup>®</sup> 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<sup>®</sup> 8



Digi Connect EZ<sup>®</sup> Mini



Digi Connect EZ<sup>®</sup> 16



Digi AnywhereUSB<sup>®</sup> Plus 2



Cables and accessories

## SPECIFICATIONS

## Digi Connect ES

### FEATURES

<b>MANAGEMENT</b>	HTTP/HTTPS, CLI or Telnet, optional secure enterprise management via Digi Remote Manager®
<b>PROTOCOLS</b>	UDP/TCP, DHCP, Extended Telnet RFC 2217, Telnet, Reverse Telnet, Rlogin & Auto Connect, TFTP
<b>SECURITY</b>	SSL, SSL/TLS, SSHv2, FIPS 197 (serial ports), SNMPv2
<b>SOFTWARE</b>	Device-initiated patented RealPort® COM port redirector and RFC 2217, Python scripting, custom development environment
<b>STATUS LEDS</b>	Power, locator, serial and Ethernet link/activity
<b>OPERATING SYSTEMS</b>	Microsoft Windows® 7, 8, 8.1, 10 and Windows Server® 2012, 2016, 2019; and Linux® Note: TCP/UDP socket services are operating system independent.
<b>DIMENSIONS (L X W X D)</b>	23.5 cm x 26.9 cm x 4.20 cm (9.30 in x 10.60 in x 2.10 in)
<b>WEIGHT</b>	3 1.34 kg (0 lb)

### INTERFACES

#### SERIAL

<b>PORTS</b>	4/8 separately isolated RS-232 ports (2.5 kV)
<b>THROUGHPUT</b>	Up to 230 kbps
<b>SIGNAL SUPPORT</b>	TXD, RXD, RTS, CTS, DTR, DSR, DCD

#### ETHERNET

<b>PORTS</b>	1 uplink, optional 4-port switch
<b>PHYSICAL LAYER</b>	10/100 Base-T separately isolated (1.5 kV)
<b>MODE</b>	Full or half duplex

### POWER REQUIREMENTS

<b>POWER SUPPLY</b>	Internal 100-240 VAC, 50-60 Hz 0.2 A max
<b>PRODUCT SURGE PROTECTION (ESD)</b>	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

<b>OPERATING TEMPERATURE</b>	0 °C to 55 °C (32 °F to 130 °F)
<b>STORAGE TEMPERATURE</b>	-30 °C to 85 °C (-22 °F to 185 °F)
<b>RELATIVE HUMIDITY</b>	5 to 95% (non-condensing)
<b>SERIAL PORT PROTECTION (ESD)</b>	15 kV human body model

### STANDARDS COMPLIANCE

<b>EMISSIONS</b>	EN 55011, EN 55022, CISPR 11, CISPR 22
<b>SAFETY</b>	EN 60950-1, IEC 60950-1, EN 60601-1, EN 60601-1-2, IEC 60601-1
<b>IMMUNITY</b>	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)

**DIGI SERVICE AND SUPPORT** / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit [www.digi.com/support](http://www.digi.com/support).

© 2023 Digi International Inc. All rights reserved.

All trademarks are the property of their respective owners.

**DIGI INTERNATIONAL WORLDWIDE HQ**  
877-912-3444 / 952-912-3444 / [www.digi.com](http://www.digi.com)

**DIGI INTERNATIONAL JAPAN**  
+81-3-5428-0261 / [www.digi-intl.co.jp](http://www.digi-intl.co.jp)

**DIGI INTERNATIONAL GERMANY**  
+49-89-540-428-0

**DIGI INTERNATIONAL SINGAPORE**  
+65-6213-5380

**DIGI INTERNATIONAL CHINA**  
+86-21-50492199 / [www.digi.com.cn](http://www.digi.com.cn)

91001320  
G5/823

