DIGI

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 connectivty. 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

DATA MANAGEMENT SYSTEM

Ethernet

DIGI CONNECT® ES

RS-231

Pump Monitor

Pressure/Flow Meter

RELATED PRODUCTS

ConenctPort® TS

PortServer® TS

ConnectPort® LTS

Digi Connect® SP

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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