

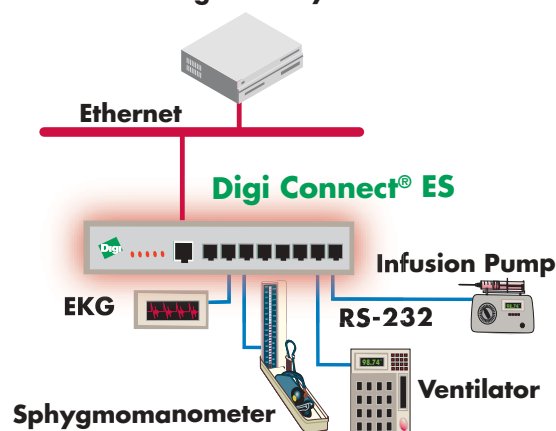
Digi Connect[®] Extended Safety (ES)

Terminal Server



The Digi Connect ES offers extended safety for serial over Ethernet applications that require isolation on and between ports.

Data Management System



Features/Benefits

- > 4/8/16-port RS-232 serial-to-network connectivity
- > IEC 60601 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
- > Supports SNMP for easy network management

Overview

Digi Connect ES provides mission-critical serial over Ethernet connectivity. It is the first IEC 60601/EN60601 compliant device of its kind and consists of four, eight or 16 galvanic isolated RS-232 serial ports, with a 10/100 Mbps network interface and Ethernet switch (eight-, 16-port models). Common applications include providing Ethernet connections from serial devices such as ventilators, EKGs, patient monitoring systems, infusion pumps and glucose meters 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 Connect ES solutions offer the most robust feature set on the market. 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, allowing existing software applications to work without modification. Incoming/outgoing and Telnet sessions on each port give system administrators a high level of control over networked serial devices. Other features include Secure Shell (SSH v2) encryption to protect against unauthorized network monitoring or "sniffing."

Digi International makes device networking easy by developing products and technologies that are cost-effective and easy to use. With over 20 million ports shipped worldwide, Digi has been offering the highest levels of performance, flexibility, and quality since 1985.



Features/Specifications

FEATURES

- 4/8/16 separately isolated RS-232 serial ports (2.5 kV)
- Separately isolated Ethernet ports (1.5 kV)
- Connects to 10/100 Mbps Ethernet LAN
- Integrated 2-port Ethernet switch on 8- and 16-port models
- DHCP, RARP and ARP-Ping for easy IP address assignment
- HTTP for easy browser configuration
- Telnet, Reverse Telnet, Rlogin and auto-connect
- Up to 9 Telnet or Rlogin sessions per port
- TCP and UDP Socket support
- Password access
- Line Printer Daemon (LPD)
- SNMP
- Digi Port Authority-Remote for easy monitoring
- Easy firmware upgrades via TFTP
- Save/Restore configuration to host
- Surge protection on all ports
- 230 Kbps throughput on all ports
- Full modem and hardware flow control
- LEDs for serial and Ethernet activity
- White metal enclosure
- SSH v2 feature available on all ports simultaneously

REGULATORY APPROVALS

- IEC 60601-1
- UL 60601-1
- EN60601-1
- EN60601-1-2
- EN55011
- EN55022
- EN55024
- AS/NZS CISPR 22
- ICES-003
- FCC P15 Subpart B Class A
- UL 60950-1
- CAN/CSA 22.2 60950-1-3
- IEC/EN60950-1

OPERATING SYSTEMS

- AIX
- HP-UX
- Linux
- Windows® XP, Windows 2000, Windows Server™ 2003, Windows 98, Windows ME, Windows NT®
- SCO® OpenServer™
- SCO UnixWare™
- Solaris™ (Intel)
- Solaris (SPARC)



DIMENSIONS

- Length: 9.30 in (23.50 cm)
- Width: 10.60 in (26.90 cm)
- Depth: 2.10 in (4.20 cm)
- Weight: 3.00 lbs (1.34 kg)

REALPORT SOFTWARE

- Local emulation of UNIX TTY and Microsoft® COM ports
- Transparent printing under UNIX
- Single TCP/IP connection per Digi Connect ES reduces Ethernet traffic and minimizes host CPU utilization
- RealPort with encryption available for added security

POWER REQUIREMENTS

- Internal 100-240VAC, 50-60 Hz, 10W
- UL certified
- Surge protection
 - 4 kV burst (EFT) per EN61000-4-4
 - 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)
- Relative humidity: 5% to 95% (non-condensing)
- Storage and transport temperature: -30° C to +85° C (-22° F to +185° F)
- Serial port protection (ESD): +15 kV human body model

MODEL.....PART NUMBERS

Model

Digi Connect ES 4
Digi Connect ES 8
Digi Connect ES 8 with Ethernet Switch
Digi Connect ES 16
Digi Connect ES 16 with Ethernet Switch
Digi Connect ES VESA Mounting Bracket

North America

DC-ES-4
DC-ES-8
DC-ES-8-SW
DC-ES-16
DC-ES-16-SW
DC-ES-BKT

International

DC-ES-4-EU
DC-ES-8-EU
DC-ES-8-SW-EU
DC-ES-16-EU
DC-ES-16-SW-EU
DC-ES-BKT

DIGI PORT AUTHORITY-REMOTE

- Remote monitoring application
- Port status
- Ethernet status

DIGI SERVICE AND SUPPORT

You can purchase with confidence knowing that Digi is here to support you with expert technical support and a strong five-year warranty. <http://support.digi.com>

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