Digi One® SP IA

Industrial Serial Server

Entry-level serial-to-Ethernet connectivity for devices in industrial automation applications.

Overview

Digi One SP IA is a compact serial server providing entry level serial-to-Ethernet connectivity for virtually any industrial device. It features one RS-232/422/485 DB-9 serial port, 9-30VDC input and DIN rail kit. Digi One SP IA provides a reliable interface to OPC servers or to other IA equipment such as bar-code readers, scales or temperature sensors.

Digi One SP IA supports most IA protocols through TCP/UDP connections, serial bridging or COM port redirection using Digi's patented RealPort® software. RealPort enables existing applications to communicate, without modification, with serial devices over the Ethernet as if they were communicating over a serial cable.

Digi One SP IA is easy to install locally or remotely. The IP address can be configured using DHCP, ARP-Ping or Setup, an application included with the installation CD that automatically detects all Digi One devices on the network. Using the web interface, users can configure advanced functions into their application.

Related Products

Digi Connect SP®

Digi Connect® Wi-SP

Digi One® SP

Power Supply 76000654

PortServer® TS MEI

Digi One® IA

Application Highlight

Handheld Scanner

RS-232/422/485

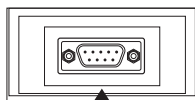**Digi One® SP IA**

Ethernet

HMI

Features/Benefits

- DIN rail and wall mount kits included

- Patented RealPort for COM/TTY port control and management

- TCP/UDP Socket Services for broad device connectivity and application use

- Auto-connect the serial device to networked server using raw, Telnet, rlogin

- Switch selectable RS-232/422/485 for simple interfacing to any type of serial device

- Modem emulation allows support for devices designed only for modem communications

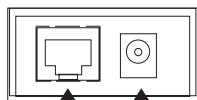- 9-30VDC power with bare-wire "pigtail" included

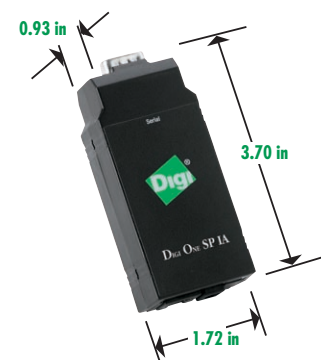| Platform	Digi One® SP IA
Features	
Management	HTTP configuration
Protocols	TCP/UDP Socket Services, UDP Multicast, Telnet, Reverse Telnet, RFC2217, DHCP/RARP/ARP-Ping for IP address assignment
Software	Patented RealPort for COM/TTY ports
Operating Systems	AIX, HP-UX, Linux®, SCO® OpenServer™ 5, SCO® OpenServer™ 6, Solaris™ Intel, Solaris™ SPARC, Windows XP®, Windows Server® 2003, Windows Server® 2008, Windows Vista®
Status LEDs	Power, Ethernet link and activity
Dimensions (L x W x D)	3.70 in x 1.72 in x 0.93 in (9.40 cm x 4.30 cm x 2.30 cm)
Weight	2.29 oz (65.00 g)
Other	Full modem and hardware flow control, Modem emulation, DIN rail and wall mount kit included
Interfaces	
Serial Ports	RS-232/422/485 (switch selectable)
Serial Connector	DB-9M
Serial Throughput	Up to 230 Kbps
Ethernet Physical Layer	10/100Base-T
Power Requirements	
Power Input	9-30VDC @ 0.5Amps max
Power Supply	Ships with a 120VAC (North America) or a 120/240VAC (International) power supply providing 12VDC @ 0.5 Amps max power
Power Consumption	Typical: 4 W; Max: 6 W
Surge Protection	4 kV burst (EFT) per EN61000-4-4, 2 kV surge per EN61000-4-5
Power Connector	Additional bare-wire "pigtail" connector included
Environmental	
Operating Temperature	10º C to 45º C (50º F to 113º F)
Relative Humidity	5% to 90% (non-condensing)
Regulatory Approvals	
Safety	UL 60950, EN60950, CAN/CSA C22.2 No.60950
Emissions/Immunity	FCC Part 15 Subpart B (Class A), EN55024, EN55022 (Class A), EN61000-3-2,3

Digi One SP IA - Front

DB-9M Serial

Digi One SP IA - Back

Ethernet **Power**

0.93 in

3.70 in

1.72 in