



INDUSTRIAL  
SERIAL SERVER



# DIGI ONE® SP IA

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

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, 9-30 VDC 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.

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

## APPLICATION EXAMPLE



## RELATED PRODUCTS



Digi Connect®  
SP



Digi Connect®  
Wi-SP



DigiOne®  
SP



Power Supply  
76000823



PostServer®  
TS MEI

## SPECIFICATIONS

# 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, Solaris, Linux®, Windows® 2000, Windows® XP, Windows® 7, Windows® 8, Windows® 8.1, Windows® 10, Windows Server® 2003, Windows Server® 2008, Windows Server® 2012. Note: TCP/UDP socket services are operating system independent
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	9-30 VDC @ 0.5 Amps max
POWER SUPPLY	12 VDC/1.5A max out; 100-240 VAC 50-60 Hz in (wall mount)
POWER CONSUMPTION	Typical: 4 W; Max: 6 W
PRODUCT SURGE PROTECTION (ESD)	4 kV burst (EFT) per EN61000-4-4, 2 kV surge transient per EN61000-4-5 when used with supplied power adapter
POWER CONNECTOR	Additional bare-wire "pigtail" connector included
ENVIRONMENTAL	
OPERATING TEMPERATURE	10° C to 45° C (50° F to 113° 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

## PART NUMBERS

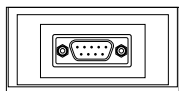
## DESCRIPTION

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Digi One SP IA (Worldwide)

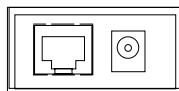
For a full list of accessories, visit [www.digi.com](http://www.digi.com)

Digi One® SP IA - FRONT



DB-9M Serial

Digi One® SP IA - BACK



Ethernet Power



**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).

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