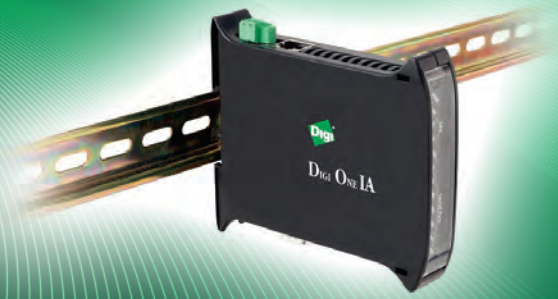


# Digi One<sup>®</sup> IA

Industrial Serial Server

Easy, reliable serial-to-Ethernet and Modbus-to-Modbus/  
TCP connectivity for industrial automation applications.



## Overview

Digi One IA provides reliable, cost-effective network connectivity for serial devices. This unobtrusive and easy-to-use serial server delivers serial-to-Ethernet connectivity to Programmable Logic Controllers (PLCs), Remote Terminal Units (RTUs), bar-code readers and other industrial devices.

Digi One IA supports most industrial automation protocols through TCP/UDP connections, serial bridging or COM port redirection using Digi's patented RealPort<sup>®</sup> software. RealPort enables existing applications to communicate with serial devices over the Ethernet. By creating a Modbus bridge, multiple Modbus/TCP masters can share Modbus serial slaves, or Modbus serial masters can access Modbus/TCP slaves.

Digi One 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 detects Digi One devices on the network. Using the web interface, users can configure advanced functions into their application.

### Related Products



Digi One<sup>®</sup> IAP



Digi One<sup>®</sup> IAP Haz



Digi One<sup>®</sup> SP IA

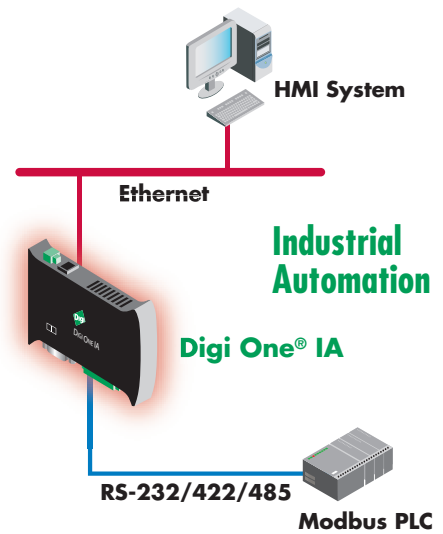


PortServer<sup>®</sup> TS H MEI



Power Supply  
76000736

### Application Highlight

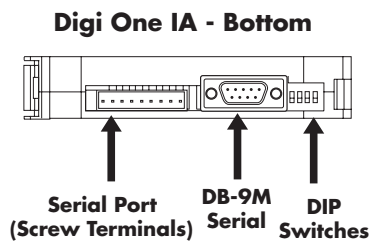
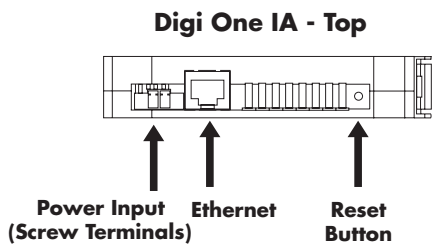


### Features/Benefits

- Patented RealPort for COM/TTY port control and management
- TCP/UDP Socket Services for broad device connectivity and application use
- Modbus serial to Modbus/TCP protocol conversion
- Switch selectable RS-232/422/485 for simple interfacing to any type of serial device
- Industrial DIN rail mounting for use in space-prohibitive control cabinets
- Galvanic isolation (between power and serial)
- Tunable for low latency or optimized throughput



Features	
Management	HTTP configuration, Digi Port Authority - Remote management diagnostics and auto-discovery tool
Protocols	Telnet, Reverse Telnet and extended Telnet RFC 2217; TCP/UDP Socket Services; UDP, support 32 concurrent socket connections; DHCP/RARP, ARP-Ping; Modbus ASCII/RTU to Modbus TCP conversion; Modbus Ethernet-to-Serial Bridge Function supporting Modbus/TCP, Modbus/UDP, Modbus/RTU, Modbus/ASCII; Modbus bridge supports TCP and UDP Encapsulation of Modbus/RTU, Modbus/ASCII
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	Serial signals, Power, Ethernet, Diagnostics
Dimensions (L x W x D)	4.70 in x 0.90 in x 4.0 in (12.00 cm x 2.30 cm x 10.10 cm)
Weight	2.25 oz (64.00 g)
Other	Full modem and hardware flow control, Flash upgradeable firmware, 35 mm DIN rail mounting
Interfaces	
Serial Ports	1 RS-232/422/485 (switch selectable)
Serial Connector	DB-9M or screw terminal connectors
Serial Throughput	Up to 230 Kbps
Ethernet Physical Layer	10/100Base-T
Power Requirements	
Power Input	9-30VDC @ .5 Amps max
Power Connector	Screw terminal block power jack for external supply
Surge Protection	2 kV isolation between power supply and serial ground product
Environmental	
Operating Temperature	0° C to 60° C (32° F to 140° F)
Relative Humidity	5% to 90% (non-condensing)
Ethernet Isolation	1500VAC min per IEEE 802.3/ANSI X3.263
Serial Port Protection (ESD)	+15 kV air GAP and +8 kV contact discharge per IEC 1000-4-2
Regulatory Approvals	
Safety	UL 60950, UL1604 (Class 1 Div 2), EN60950, CAN/CSA C22.2 No.60950
Emissions/Immunity	FCC Part 15 Subpart B (Class A), EN55024, EN55022 (Class A), EN61000-6-2



Visit [www.digi.com](http://www.digi.com) for part numbers.

**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. [www.digi.com/support](http://www.digi.com/support)

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