



INDUSTRIAL
SERIAL SERVER



DIGI ONE® IA

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

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® 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.

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

RELATED PRODUCTS



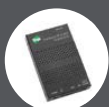
DigiOne® IAP



DigiOne® IAP HAZ



DigiOne® SP IA



PostServer® TS H MEI



Power Supply 76000736

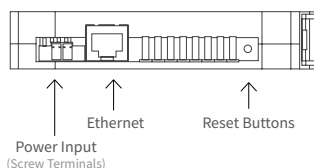
APPLICATION EXAMPLE: INDUSTRIAL AUTOMATION



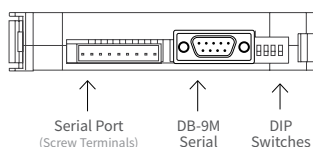
SPECIFICATIONS		Digi One® IA	
FEATURES			
MANAGEMENT		HTTP configuration, Digi Port Authority - Remote management diagnostics and auto-discovery tool	
PROTOCOLS		Telnet, Reverse Telnet and extended Telnet RFC 2217; TCP/UDP Socket Services; UDP, support 32 concurrent socket connections; DHCP/RARP, ARP-Ping; 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, 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		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		10/100 Base-T	
POWER REQUIREMENTS			
POWER INPUT		9-30 VDC @ .5 Amps max	
POWER CONNECTOR		Screw terminal block power jack for external supply	
PRODUCT SURGE PROTECTION (ESD)		2 kV isolation between power supply and serial ground	
ENVIRONMENTAL			
OPERATING TEMPERATURE		0° C to 60° C (32° F to 140° F)	
RELATIVE HUMIDITY		5% to 90% (non-condensing)	
ETHERNET ISOLATION		1500 VAC min per IEEE 802.3/ANSI X3.263	
SERIAL PORT PROTECTION (ESD)		15 kV human body model	
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	

PART NUMBERS		DESCRIPTION	
70001862		Digi One IA	

DigiOne® IA - TOP



DigiOne® IA - BOTTOM



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DIGI INTERNATIONAL WORLDWIDE HQ
877-912-3444 / 952-912-3444 / www.digi.com

DIGI INTERNATIONAL GERMANY
+49-89-540-428-0

DIGI INTERNATIONAL JAPAN
+81-3-5428-0261 / www.digi-intl.co.jp

DIGI INTERNATIONAL SINGAPORE
+65-6213-5380

DIGI INTERNATIONAL CHINA
+86-21-50492199 / www.digi.com.cn



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