



DIGIONE IAP

Serial-to-Ethernet connectivity, protocol conversion and protocol interoperability for industrial applications

Digi One® IAP combines reliable serial-to-Ethernet connectivity with protocol conversion and interoperability. Users can IP enable a broad range of serial devices, as well as link two industrial devices. It is ideal for device management applications requiring specific industry protocol support.

Serial server functionality built into Digi One IAP allows any serial device to be connected to a TCP/IP network. Applications may communicate with the serial device using TCP/UDP or Digi's patented RealPort® COM port redirector for remote native COM port access.

Digi One IAP supports a variety of serial and Ethernet protocols, allowing users to bridge serial and Ethernet devices, or both. Multi-master access allows multiple masters to communicate with a single slave across protocols.

Digi One IAP converts ASCII data from serial devices to Ethernet protocols. An additional serial port can act as a pass-through port, allowing local devices to communicate with a slave unit without disrupting the serial-to-Ethernet connection.

APPLICATION EXAMPLE

BENEFITS

- 1 DB-9 serial port and additional pass-through port
- TCP/UDP and RealPort for COM/TTY port control and management
- Multi-master/Multi-protocol concurrent support Modbus protocols
- Serial and Ethernet protocol bridging support for Modbus protocols promotes interoperability
- ASCII to protocol translation for Modbus
- Switch selectable RS-232/422/485 for simple interfacing to any type of serial device
- Tunable for low latency or optimized throughput

DIGI ONE® IAP RS-232/422/485

RELATED PRODUCTS







ANAGEMENT HTTP configuration, Digi Port Authority - Remote management diagnostics and auto-discovery tool, SNMP (read/write) Telnet, Reverse Telnet, Reverse Telnet, RFC2217, TCP/JUDP Socket Services, PPP, DHCP/PARP, ARP-Ping, Static IP for IP address assignment, Support for 64 concurrent socket connections, ASCII, Modbus RTU/ASCII, Modbus/TCP Patented RealPort* for COM/TTY ports SSHv2, SSL, TLS, HTTP5 CURITY SSHv2, SSL, TLS, HTTP5 Microsoft Windows* 7, 8, 8.1, 10 and Windows Server* 2012, 2015, 2019; and Linux* Note: TCP/JUDP socket services are operating system independent. Serial signals, Power, Ethernet, Diagnostics MENSIONS (L x W x D) 12.00 cm x 2.30 cm x 10.10 cm (4.70 in x 0.90 in x 4.0 in) EIGHT 64.0 g (2.5 oz) THER Full modem and hardware flow control, Flash upgradeable firmware, 6 ms serial over Ethernet latency, 35 mm DIN rail mounting TERFACES ERIAL PORTS 1RS-232/422/485 (switch selectable) SCRUAL CONNECTOR Screw terminal connectors or DB-9M; DB-9M can act as a second direct RS-232 port connection when used as the second port ERIAL THROUGHPUT Up to 230 Kbps THERNET PHYSICAL LAYER 10/1008ase-T DWER REQUIREMENTS DWER REQUIREMENTS DWER REQUIREMENTS DWER REQUIREMENTS DWER SUPPLY Removable screw terminal for power (power supply not included) 2 kVi solation between power supply and serial ground product when used with Digi power supply NINRONMENTAL PERATING TEMPERATURE 0°C to 60°C (32° F to 140° F) ELATIVE HUMIDITY 5% to 90% (non-condensing) THERNET ISOLATION 1500 VAC min per IEEE 802.3/ANSI X3.263 ERIAL PORT PORTOCTION (ESD) 15 kV human body model SGUALTORY APPROVALS	SPECIFICATIONS	Digi One IAP				
Telnet, Reverse Telnet, RFC2217, TCP/UDP Socket Services, PPP, DHCP/RARP, ARP-Ping, Static IP for IP address assignment, Support for 64 concurrent socket connections, ASCII, Modbus RTU/ASCII, Modbus/TCP Petented RealPort* for COM/TTV ports SSHv2, SSL, TLS, HTTPS Microsoft Windows* 7, 8, 8.1, 10 and Windows Server* 2012, 2016, 2019; and Linux* Microsoft Windows* 7, 8, 8.1, 10 and Windows Server* 2012, 2016, 2019; and Linux* Microsoft Windows* 7, 8, 8.1, 10 and Windows Server* 2012, 2016, 2019; and Linux* Mote: TCP/UDP socket services are operating system independent. FATUS LEDS Serial signals, Power, Ethernet, Diagnostics MENSIONS (L x W x D) 12.00 cm x 2.30 cm x 10.10 cm (4.70 in x 0.90 in x 4.0 in) EIGHT 64.0 g (2.5 oz) THER Full modem and hardware flow control, Flash upgradeable firmware, 6 ms serial over Ethernet latency, 35 mm DIN rail mounting TERFACES ERIAL PORTS 1 RS-232/422/485 (switch selectable) Screw terminal connectors or DB-9M; DB-9M can act as a second direct RS-232 port connection when used as the second port Up to 230 Kbps THERNET PHYSICAL LAYER 10/1008ase-T DWER REQUIREMENTS DWER REQUIREMENTS DWER REQUIREMENTS DWER REQUIREMENTS DWER REQUIREMENTS DWER SUPPLY Removable screw terminal for power (power supply not included) 2 kW isolation between power supply and serial ground product when used with Digi power supply NINRONMENTAL PERATING TEMPERATURE 0° C to 60° C (32° F to 140° F) ELATIVE HUMIDITY 5% to 90% (non-condensing) FINENET ISOLATION 1500 VAC min per IEEE 802.3/ANSI X3.263 ERIAL PORT PROTECTION (ESD) 15 kV human body model SGUATORY APPROVALS	FEATURES					
Support for 64 concurrent socket connections, ASCII, Modbus RTU/ASCII, Modbus/TCP Patented RealPort* for COM/TTY ports SSHV2, SSL, TLS, HTDS PERATING SYSTEMS Microsoft Windows* 7, 8, 8.1, 10 and Windows Server* 2012, 2016, 2019; and Linux* Note: TCP/UDP socket services are operating system independent. FATUS LEDS Serial signals, Power, Ethernet, Diagnostics MENSIONS (L x W x D) 12.00 cm x 2.30 cm x 10.10 cm (4.70 in x 0.90 in x 4.0 in) EIGHT 64.0 g (2.5 oz) Full modem and hardware flow control, Flash upgradeable firmware, 6 ms serial over Ethernet latency, 35 mm DIN rail mounting TERFACES EIRIAL PORTS 1 RS-232/422/485 (switch selectable) Serial CONNECTOR Screw terminal connectors or DB-9M; DB-9M can act as a second direct RS-232 port connection when used as the second port THERNET PHYSICAL LAYER 10/1008ase-T THERNET PHYSICAL LAYER 10/100Base-T DWER REQUIREMENTS DWER SUPPLY Removable screw terminal for power (power supply not included) 2 kW isolation between power supply and serial ground product when used with Digi power supply NINRONMENTAL PERATING TEMPERATURE 0° C to 60° C (32° F to 140° F) ELATIVE HUMIDITY 5% to 90% (non-condensing) THERNET PROTECTION (ESD) 15 kV human body model SIGULATORY APPROVALS	MANAGEMENT	HTTP configuration, Digi Port Authority – Remote management diagnostics and auto-discovery tool, SNMP (read/write)				
SSHV2, SSL, TLS, HTTPS Microsoft Windows® 7, 8, 8.1, 10 and Windows Server® 2012, 2016, 2019; and Linux® Note: TCP/UDP socket services are operating system independent. FATUS LEDS Serial signals, Power, Ethernet, Diagnostics MENSIONS (L x W x D) 12.00 cm x 2.30 cm x 10.10 cm (4.70 in x 0.90 in x 4.0 in) EIGHT 64.0 g (2.5 oz) Full modem and hardware flow control, Flash upgradeable firmware, 6 ms serial over Ethernet latency, 35 mm DIN rail mounting TERRACES FIRIAL PORTS 1 RS-232/422/485 (switch selectable) FIRIAL CONNECTOR Screw terminal connectors or DB-9M; DB-9M can act as a second direct RS-232 port connection when used as the second port FIRENET PHYSICAL LAYER 10/100Base-T DURER REQUIREMENTS DURER INPUT 9 - 30 VDC @ 0.5 Amps max DURER SUPPLY Removable screw terminal for power (power supply not included) 2 kV isolation between power supply and serial ground product when used with Digi power supply NIRONMENTAL PERATING TEMPERATURE 0° C to 60° C (32° F to 140° F) ELATIVE HUMIDITY 5% to 90% (non-condensing) THERNET ISOLATION 15 kV human body model SGULATORY APPROVALS	PROTOCOLS					
Microsoft Windows* 7, 8, 8, 1, 10 and Windows Server* 2012, 2016, 2019; and Linux* Note: TCP/UDP socket services are operating system independent. VATUS LEDS Serial signals, Power, Ethernet, Diagnostics MENSIONS (L x W x D) 12.00 cm x 2.30 cm x 10.10 cm (4.70 in x 0.90 in x 4.0 in) EIGHT 64.0 g (2.5 oz) THER Full modem and hardware flow control, Flash upgradeable firmware, 6 ms serial over Ethernet latency, 35 mm DIN rail mounting TERFACES ERIAL PORTS 1 RS-232/422/485 (switch selectable) Screw terminal connectors or DB-9M; DB-9M can act as a second direct RS-232 port connection when used as the second port PHERNET PHYSICAL LAYER 10/100Base-T DWER REQUIREMENTS DWER REQUIREMENTS DWER SUPPLY Removable screw terminal for power (power supply not included) 2 kV isolation between power supply and serial ground product when used with Digi power supply NIVIRONMENTAL PERATING TEMPERATURE 0° C to 60° C (32° F to 140° F) ELATIVE HUMIDITY 5% to 90% (non-condensing) THERNET ISOLATION 15 kV human body model EGULATORY APPROVALS	SOFTWARE	Patented RealPort® for COM/TTY ports				
Note: TCP/UDP socket services are operating system independent. FATUS LEDS Serial signals, Power, Ethernet, Diagnostics MENSIONS (L x W x D) 12.00 cm x 2.30 cm x 10.10 cm (4.70 in x 0.90 in x 4.0 in) EIGHT 64.0 g (2.5 oz) Full modem and hardware flow control, Flash upgradeable firmware, 6 ms serial over Ethernet latency, 35 mm DIN rail mounting TERFACES ERIAL PORTS 1 RS-232/422/485 (switch selectable) Screw terminal connectors or DB-9M; DB-9M can act as a second direct RS-232 port connection when used as the second port ERIAL CONNECTOR Screw terminal connectors or DB-9M; DB-9M can act as a second direct RS-232 port connection when used as the second port HERNET PHYSICAL LAYER 10/100Base-T DWER REQUIREMENTS DWER REQUIREMENTS DWER SUPPLY Removable screw terminal for power (power supply not included) 2 kV isolation between power supply and serial ground product when used with Digi power supply NINGONMENTAL PERATING TEMPERATURE 0° C to 60° C (32° F to 140° F) ELATIVE HUMIDITY 5% to 90% (non-condensing) THERNET ISOLATION 1500 VAC min per IEEE 802.3/ANSI X3.263 ERIAL PORT PROTECTION (ESD) 15 kV human body model EGULATORY APPROVALS	SECURITY	SSHv2, SSL, TLS, HTTPS				
IMENSIONS (L x W x D) 12.00 cm x 2.30 cm x 10.10 cm (4.70 in x 0.90 in x 4.0 in) EIGHT 64.0 g (2.5 oz) THER Full modem and hardware flow control, Flash upgradeable firmware, 6 ms serial over Ethernet latency, 35 mm DIN rail mounting TERRACES ERIAL PORTS 1 RS-232/422/485 (switch selectable) Scrient terminal connectors or DB-9M; DB-9M can act as a second direct RS-232 port connection when used as the second port ERIAL THROUGHPUT Up to 230 kbps THERNET PHYSICAL LAYER 10/100Base-T DWER REQUIREMENTS DWER INPUT 9 - 30 VDC @ 0.5 Amps max DWER SUPPLY Removable screw terminal for power (power supply not included) 2 kV isolation between power supply and serial ground product when used with Digi power supply INVIRONMENTAL PERATING TEMPERATURE 0° C to 60° C (32° F to 140° F) ELATIVE HUMIDITY 5% to 90% (non-condensing) THERNET ISOLATION 1500 VAC min per IEEE 802.3/ANSI X3.263 ERIAL PORT PROTECTION (ESD) 15 kV human body model EGULATORY APPROVALS	OPERATING SYSTEMS					
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Full modem and hardware flow control, Flash upgradeable firmware, 6 ms serial over Ethernet latency, 35 mm DIN rail mounting TERFACES ERIAL PORTS 1 RS-232/422/485 (switch selectable) ERIAL CONNECTOR Screw terminal connectors or DB-9M; DB-9M can act as a second direct RS-232 port connection when used as the second port ERIAL THROUGHPUT Up to 230 Kbps THERNET PHYSICAL LAYER 10/100Base-T DWER REQUIREMENTS DWER INPUT 9 - 30 VDC @ 0.5 Amps max Removable screw terminal for power (power supply not included) RODUCT SURGE PROTECTION SD) 2 kV isolation between power supply and serial ground product when used with Digi power supply NIRONMENTAL PERATING TEMPERATURE 0° C to 60° C (32° F to 140° F) ELATIVE HUMIDITY 5% to 90% (non-condensing) THERNET ISOLATION 1500 VAC min per IEEE 802.3/ANSI X3.263 ERIAL PORT PROTECTION (ESD) 15 kV human body model	DIMENSIONS (L x W x D)	12.00 cm x 2.30 cm x 10.10 cm (4.70 in x 0.90 in x 4.0 in)				
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PERATING TEMPERATURE 0° C to 60° C (32° F to 140° F) 5% to 90% (non-condensing) THERNET ISOLATION 1500 VAC min per IEEE 802.3/ANSI X3.263 ERIAL PORT PROTECTION (ESD) 15 kV human body model EGULATORY APPROVALS	PRODUCT SURGE PROTECTION (ESD)	2 kV isolation between power supply and serial ground product when used with Digi power supply				
5% to 90% (non-condensing) THERNET ISOLATION 1500 VAC min per IEEE 802.3/ANSI X3.263 ERIAL PORT PROTECTION (ESD) 15 kV human body model EGULATORY APPROVALS	ENVIRONMENTAL					
THERNET ISOLATION 1500 VAC min per IEEE 802.3/ANSI X3.263 ERIAL PORT PROTECTION (ESD) 15 kV human body model EGULATORY APPROVALS	OPERATING TEMPERATURE	0° C to 60° C (32° F to 140° F)				
ERIAL PORT PROTECTION (ESD) 15 kV human body model EGULATORY APPROVALS	RELATIVE HUMIDITY	5% to 90% (non-condensing)				
EGULATORY APPROVALS	ETHERNET ISOLATION	1500 VAC min per IEEE 802.3/ANSI X3.263				
	SERIAL PORT PROTECTION (ESD)	15 kV human body model				
VL 1950. UL 1604 (Class 1. Div. 2). CSA 22.2 No 950. EN60950	REGULATORY APPROVALS					
,,,	SAFETY	UL 1950, UL 1604 (Class 1, Div. 2), CSA 22.2 No 950, EN60950				
MISSIONS / IMMUNITY FCC Part 15 (Class A), ICES-003 (Class A), CE, AS3548, EN6100-6-2 + EN55024, EN55022 (Class A)	EMISSIONS / IMMUNITY	FCC Part 15 (Class A), ICES-003 (Class A), CE, AS3548, EN6100-6-2 + EN55024, EN55022 (Class A)				

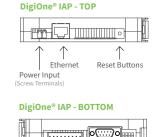
PART NUMBERS	DESCRIPTION
70001777	Digi One IAP

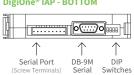
SLAVE MASTER	MB/RTU	MB SERIAL	MB/TCP	DF1	А-В ЕТН	ENET/IP	ASC11
MB SERIAL	-	YES	YES	*	*	*	YES
MB/TCP	YES	YES	-	*	*	*	YES
DF1	*	*	*	-	*	*	*
A-B ETH	*	*	*	*	-	*	*
ENET/IP	*	*	*	*	*	-	*
ASC11	NO	NO	NO	NO	NO	NO	-

^{*}Legacy status: AB protocols and conversions of other protocols to/from AB protocols are no longer supported. Existing functionality may be used on an as is basis.

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.

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