Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

DIGI ONE® IAP HAZ

Serial-to-Ethernet connectivity, protocol conversion and interoperability for industrial applications in harsh and extreme conditions

Digi One IAP Haz 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. Designed for use in harsh environments, this rugged serial server is ideal for device management applications where exposure to extreme temperatures, volatile liquids and gases are common.
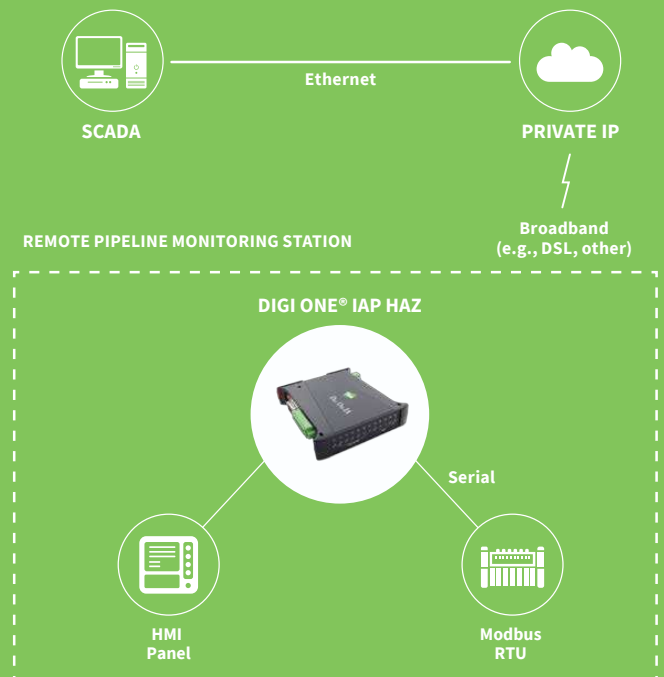
Digi One IAP Haz is a serial server and a protocol bridge rolled into one. Applications may communicate with the serial device using TCP/UDP or Digi's patented RealPort® COM port redirection for remote native COM port access.

Digi One IAP Haz 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. An additional serial port allows local devices to communicate with a slave unit, without disrupting the serial-to-Ethernet connection.

BENEFITS

– Hardened design with extended operating temperature (-35° C to +74° C) for hazardous locations

– Conformal coated circuit board

– Class 1, Division 2 certified

– Multi-master/Multi-protocol concurrent support for Allen-Bradleyand Modbus protocols

– Serial and Ethernet protocol bridging support for Allen-Bradley and Modbus protocols promotes interoperability

– ASCII to protocol translation for Allen-Bradley and Modbus

– Switch selectable RS-232/422/485 serial port

APPLICATION EXAMPLE

SCADA

Ethernet

PRIVATE IP

Broadband
(e.g., DSL, other)

REMOTE PIPELINE MONITORING STATION

DIGI ONE® IAP HAZ

Serial

HMI
Panel

Modbus
RTU

RELATED PRODUCTS

DigiOne® IA   DigiOne® IAP   DigiOne® SP IA   PostServer® TS H MEI Haz   Power Supply 76000736

SPECIFICATIONS — DigiOne® IAP Haz

FEATURES

MANAGEMENT	HTTP configuration, Digi Port Authority – Remote management diagnostics and auto-discovery tool, SNMP (read/write)
PROTOCOLS	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, DF1, Modbus RTU/ASCII, Modbus/TCP, EtherNet/IP, Allen-Bradley Ethernet
SOFTWARE	Patented RealPort® for COM/TTY ports
SECURITY	SSHv2, SSL, TLS, HTTPS
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	2.5 oz (64.0 g)
OTHER	Full modem and hardware flow control, Flash upgradeable firmware, 6 ms serial over Ethernet latency, Conformal coated PCB, 35 mm DIN rail mounting

INTERFACES

SERIAL 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
SERIAL THROUGHPUT	Up to 230 Kbps
ETHERNET PHYSICAL LAYER	10/100Base-T

POWER REQUIREMENTS

POWER INPUT	9-30 VDC @ 0.5Amps max
POWER SUPPLY	Removable screw terminal for power (power supply not included)
PRODUCT SURGE PROTECTION (ESD)	2 kV isolation between power supply and serial ground

ENVIRONMENTAL

OPERATING TEMPERATURE	-35° C to +74° C (-31° F to +165° 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

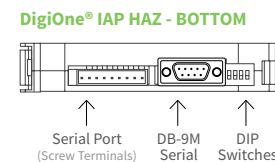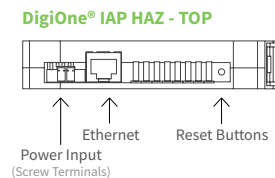|	
SAFETY	UL 1950, UL 1604 (Class 1, Div. 2), CSA 22.2 No 950, EN60950
EMISSIONS / IMMUNITY	FCC Part 15 (Class A), ICES-003 (Class A), CE, AS3548, EN6100-6-2 + EN55024, EN55022 (Class A)

PART NUMBERS — DESCRIPTION

PART NUMBERS	DESCRIPTION
70002326	Digi One IAP Haz

MASTER \ SLAVE	MB /RTU	MB SERIAL	MB/TCP	DF1	A-BETH	ENET/IP*	ASC11
MB SERIAL	–	YES	YES	YES	YES	YES	YES
MB/TCP	YES	YES	–	YES	YES	YES	YES
DF1	YES	YES	YES	–	YES	YES	YES
A-B ETH	YES	YES	YES	YES	–	YES	YES
ENET/IP	YES	YES	YES	YES	YES	–	YES
ASC11	NO	NO	NO	NO	NO	NO	–

*PCCC encapsulated under CIP only for EtherNet/IP

DigiOne® IAP HAZ - TOP
Power Input (Screw Terminals), Ethernet, Reset Buttons

DigiOne® IAP HAZ - BOTTOM
Serial Port (Screw Terminals), DB-9M Serial, DIP Switches

0.9" / 4.7" / 4.0"

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.