

Digi One Embedded

Single
Component
Solution for
Embedded
Applications



- > Embedded TCP/IP stack
 - > TCP Server
 - > TCP Client
 - > UDP
 - > RFC 2217
- > Network configurable
- > Single component solution
 - > DIL48 Module
 - > Compact form factor (61 x 29 x 13 mm)
 - > Power requirements +5V DC
- > TTL serial interface
 - > Full signal support for TX, RX, RTS, CTS, DTR, DSR and DCD
 - > Supports throughput from 300 to 115,200 bps
- > Network interface
 - > IEEE 802.3 compliant
 - > Integrated 10BaseT transceiver w/polarity correction
 - > Attachment Unit Interface (AUI) support
 - > Auto-detect for AUI/10Base-T interfaces

Digi One™ Embedded Overview

The Digi One Embedded is part of the Digi One Family of single port device servers that provides simple, reliable and cost-effective network connections for serial devices. The product addresses the industrial automation, retail and embedded systems markets, and provides fully transparent serial device connectivity over industry-standard Ethernet connections.

The Digi One Embedded allows both equipment manufacturers and systems integrators to network-enable products at a fraction of the cost required to develop a custom solution. It is a highly specialized single component solution that provides fully transparent operation, including an IEEE 802.3 compliant Ethernet controller and a robust onboard TCP/IP stack. The ultra compact DIL48 based design will withstand the harsh conditions of commercial and industrial environments.

In virtually any embedded application where extremely cost-effective serial connectivity over Ethernet is needed, the Digi One Embedded is the device server of choice. This includes a wide variety of applications including scales, beverage machines, set-top boxes, HVAC units, pump control systems and refrigerators.

With over 20 million ports shipped worldwide, Digi International has been the leader in serial connectivity solutions offering the highest levels of performance, flexibility and quality since 1985. Today, Digi is extending the boundaries of Connectware by providing simple, more reliable and cost-effective solutions to network-enable all your serial devices.

Please contact Digi at 1-877-OEM-DIGI for additional information or to discuss your application specific requirements.



Connectware™

FEATURES

- > DIL48 Module
- > TTL serial interface
- > Ethernet controller
- > AUI/10Base-T interface support
- > Embedded TCP/IP stack
- > Network configuration

ENVIRONMENTAL

- > Operating temperature: 32°F to 158°F (0°C to 70°C)
- > Storage temperature: -67°F to 257°F (-55°C to 125°C)
- > Humidity: 20% to 80%

DIMENSIONS

- > Length: 2.42 in. (6.1 cm)
- > Depth: .51 in (1.3 cm)
- > Width: 1.14 in. (2.9 cm)
- > Pitch: .10 in. (.254 cm)

POWER REQUIREMENTS

- > +5 V +/-10%, 250mA typical

NETWORK PROTOCOLS

- > IP, TCP, UDP, ARP, RARP, ICMP, TELNET, EXTENDED TELNET RFC2217

MODEL/PART NUMBERS

Model/Part Numbers

	North America	International
Digi One Embedded TCP Server Network Configurable	70001821	70001821
Digi One Embedded TCP Client Network Configurable	70001823	70001823
Digi One Embedded UDP Network Configurable	70001825	70001825
Digi One Embedded Telnet	70001765	70001765

The TCP and UDP versions of the Digi One Embedded are also available with a serial port configuration feature. Please call for availability.

Bulk packaging available. Please call Digi sales for more information.

NETWORK INTERFACES

- > RJ-45 (10Base-T), or AUI Ethernet

DATA RATES

- > 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps

MODEM CONTROL

- > DTR, DSR, DCD

FLOW CONTROL

- > RTS/CTS, DTR/DSR, XON/XOFF, None

DC CHARACTERISTICS

Vih, Vil	Input level	Min	Max	Units
	RESET\			
	Logic High	0.8Vdd	Vdd	V
	Logic Low	Vss	0.2Vdd	V
All Other Inputs				
	CMOS			
	Logic High	0.7Vdd	Vdd	V
	Logic Low	Vss	0.3Vdd	V
	TTL			
	Logic High	2	Vdd	V
	Logic Low	Vss	0.8	V

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.

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