



EASY SERIAL-  
TO-ETHERNET  
CONNECTIVITY



# PORTSERVER® TS

Simple, reliable and cost-effective RS-232 serial-to-Ethernet connectivity

PortServer TS serial servers offer a simple, reliable and cost-effective solution for connecting multiple serial devices over industry standard Ethernet. Target applications include retail/point-of-sale, building control and medical point-of-care.

Digi's patented RealPort®, with encryption and user authentication\*, makes it possible to establish a connection between the host and networked serial device by creating a local COM or TTY port on the host computer, allowing software applications to work with networked device servers instead of requiring a host adapter.

PortServer TS is easy to install locally or remotely through a variety of IP addressing methods (DHCP, RARP, ARP-Ping) along with an application included on the installation CD that will automatically detect all PortServer devices on your network.

\*The RealPort encryption feature is compatible with AIX, HP-UX, Solaris, Linux, Windows 2000, Windows XP, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2003, Windows Server 2008 and Windows Server 2012. The RealPort authentication feature is compatible only with Windows 2000, Windows XP, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2003, Windows Server 2008 and Windows Server 2012.

## BENEFITS

- 1, 2 or 4 RS-232 serial ports for standard serial-to-Ethernet connectivity
- Ideal for applications requiring COM ports, serial tunneling, TCP/UDP sockets, or multiple unicast functionality
- Patented RealPort for COM/TTY port control and management
- Modem emulation
- Monitoring and diagnostic utility
- Secure communication via SSHv2
- Tunable for low latency or optimized for throughput
- Easy web-based configuration (HTTP/HTTPS)

## RELATED PRODUCTS



PortServer®  
TS ME1



ConnectPort®  
TS



ConnectPort®  
LTS



Digi One® SP



Cables

## APPLICATION EXAMPLE



PC SERVER

### IP ENABLING SERIAL RETAIL/POS EQUIPMENT

Ethernet

### PORTSERVER® TS



RS-232



Bar-code  
Scanner



Credit Card  
Reader

# SPECIFICATIONS

## PortServer® TS 1

## PortServer® TS 2

## PortServer® TS 4

### FEATURES

<b>MANAGEMENT</b>	HTTP/HTTPS, CLI, SNMP (read/write), Digi Port Authority-Remote management diagnostics and auto-discovery tool
<b>PROTOCOLS</b>	UDP/TCP, DHCP/RARP/ARP-Ping for IP Address assignment, PPP, Extended Telnet RFC 2217, Telnet, Reverse Telnet, Modbus to Modbus/TCP protocol conversion support, RADIUS, Reverse SSH
<b>SECURITY</b>	SSHv2, SSL/TLS
<b>SOFTWARE</b>	Supports Digi's Realport® COM port redirector
<b>STATUS LEDS</b>	Link, Activity, Power, Status
<b>OPERATING SYSTEMS</b>	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.
<b>DIMENSIONS (L X W X D)</b>	5.25 in x 3.33 in x 0.95 in (13.34 cm x 8.46 cm x 2.42 cm)
<b>WEIGHT</b>	6.67 oz (189g)
<b>OTHER</b>	Full modem and hardware flow control, Modem emulation, Port buffering, RJ-45/DB-9F console adapter included for optional serial configuration

### INTERFACES

#### SERIAL

<b>PORTS</b>	1 RS-232 RJ-45; Up to 230 Kbps throughput; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD	2 RS-232 RJ-45; Up to 230 Kbps throughput; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD	4 RS-232 RJ-45; Up to 230 Kbps throughput; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD
--------------	---	---	---

#### ETHERNET

<b>PORTS</b>	1 RJ-45 10/100 Mbps 10/100Base-T (auto-sensing); Full or half duplex
--------------	--

#### POWER REQUIREMENTS

<b>POWER INPUT</b>	9-30 VDC with locking barrel power connector
<b>POWER SUPPLY (INCLUDED)</b>	North America: 12 VDC/.5A max out; 120 VAC in (wall mount); International: 12 VDC/.5A max out; 100-240 VAC in (small brick)
<b>POWER SUPPLY (OPTIONAL)</b>	12VDC extended temperature power supply sold separately
<b>POWER CONSUMPTION</b>	Typical: 4 W; Max: 6 W
<b>PRODUCT SURGE PROTECTION (ESD)</b>	4 kV burst (EFT) per EN61000-4-4, 2 kV surge transient per EN61000-4-5

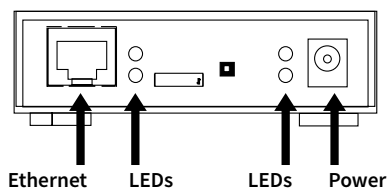
#### ENVIRONMENTAL

<b>OPERATING TEMPERATURE</b>	0° C to +60° C (32° F to 140° F)
<b>STORAGE TEMPERATURE</b>	-40° C to +85° C (-40° F to +185° F)
<b>RELATIVE HUMIDITY</b>	5% to 95% (non-condensing)
<b>ETHERNET ISOLATION</b>	1500 VAC min per IEEE802.3/ANSI X3.263
<b>SERIAL PORT PROTECTION (ESD)</b>	15kV Human Body Model

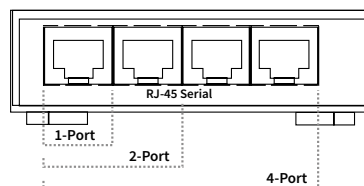
#### APPROVALS

<b>SAFETY</b>	UL/CUL 60950, IEC 60950 & CB
<b>EMISSIONS/IMMUNITY</b>	CE, FCC Part 15 (Class A), EN55024, EN55022 Class A, AS/NZS 3548, CISPR 22, VCCI V-3/99.05

PORTSERVER TS FAMILY - FRONT



PORTSERVER TS FAMILY - BACK



PART NUMBERS	DESCRIPTION
70002041	PortServer TS 1
70002042	PortServer TS 1 (International)
70002043	PortServer TS 2
70002044	PortServer TS 2 (International)
70002045	PortServer TS 4
70002046	PortServer TS 4 (International)

FOR MORE INFORMATION  
PLEASE VISIT [WWW.DIGI.COM](http://WWW.DIGI.COM)

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

© 1996-2016 Digi International Inc. All rights reserved.  
All trademarks are the property of their respective owners.

91001359  
D2/1116

**DIGI INTERNATIONAL WORLDWIDE HQ**  
877-912-3444 / 952-912-3444 / [www.digi.com](http://www.digi.com)

**DIGI INTERNATIONAL FRANCE**  
+33-1-55-61-98-98 / [www.digi.fr](http://www.digi.fr)

**DIGI INTERNATIONAL JAPAN**  
+81-3-5428-0261 / [www.digi-intl.co.jp](http://www.digi-intl.co.jp)

**DIGI INTERNATIONAL SINGAPORE**  
+65-6213-5380

**DIGI INTERNATIONAL CHINA**  
+86-21-50492199 / [www.digi.com.cn](http://www.digi.com.cn)

