



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.

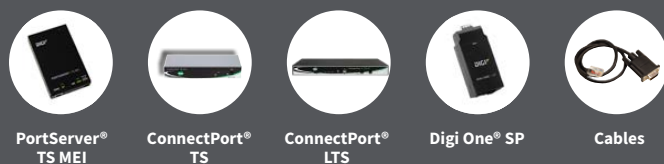
PortServer TS is easy to install locally or remotely through a variety of IP addressing methods (DHCP, RARP, ARP-Ping) along with an application included on the installation CD that will automatically detect all PortServer devices on your network.

\*The RealPort encryption feature is compatible with Microsoft Windows® 7, 8, 8.1, 10 and Windows Server® 2012, 2016, 2019; and Linux®. The RealPort authentication feature is compatible only with Microsoft Windows® 7, 8, 8.1, 10 and Windows Server® 2012, 2016, 2019.

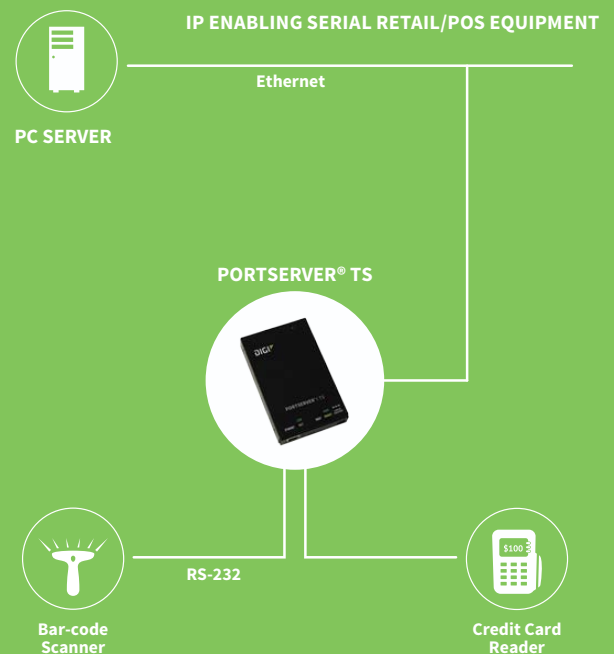
## BENEFITS

- 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



## APPLICATION EXAMPLE



# 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>      | Microsoft Windows® 7, 8, 8.1, 10 and Windows Server® 2012, 2016, 2019; and Linux®<br>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>                 | 189 g (6.67 oz)   |
| <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>        | 12 VDC/1.5 A max out; 100 - 240 VAC 50-60 Hz in (wall mount)           |
| <b>POWER SUPPLY (OPTIONAL)</b>        | 12 VDC 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 |

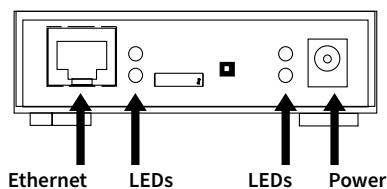
### ENVIRONMENTAL

|                                     |  |
|-------------------------------------|--|
| <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> | 15 kV Human Body Model                 |

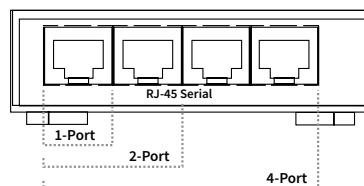
### APPROVALS

|                           |  |
|---------------------------|--|
| <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 Worldwide |
| 70002043     | PortServer TS 2 Worldwide |
| 70002045     | PortServer TS 4 Worldwide |

For a full list of accessories, visit [www.digi.com](http://www.digi.com)

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

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