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.


**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)

**APPLICATION EXAMPLE**

**IP ENABLING SERIAL RETAIL/POS EQUIPMENT**

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**RELATED PRODUCTS**
- PortServer® TS MEI
- ConnectPort® TS
- ConnectPort® LTS
- Digi One® SP
- Cables
## SPECIFICATIONS

### PortServer® TS 1 | PortServer® TS 2 | PortServer® TS 4

### FEATURES

#### MANAGEMENT
- HTTP/HTTPS, CLI, SNMP (read/write), Digi Port Authority-Remote management diagnostics and auto-discovery tool

#### PROTOCOLS
- 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

#### SECURITY
- SSHv2, SSL/TLS

#### SOFTWARE
- Supports Digi’s Realport® COM port redirector

#### STATUS LEDS
- Link, Activity, Power, Status

#### OPERATING SYSTEMS

#### DIMENSIONS (L X W X D)
- 5.25 in x 3.33 in x 0.95 in (13.34 cm x 8.46 cm x 2.42 cm)

#### WEIGHT
- 6.67 oz (189g)

#### OTHER
- Full modem and hardware flow control, Modem emulation, Port buffering, RJ-45/DB-9F console adapter included for optional serial configuration

### INTERFACES

#### SERIAL

<table>
<thead>
<tr>
<th>PORTS</th>
<th>PortServer® TS 1</th>
<th>PortServer® TS 2</th>
<th>PortServer® TS 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 RS-232 RJ-45; Up to 230 Kbps throughput; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD</td>
<td>2 RS-232 RJ-45; Up to 230 Kbps throughput; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD</td>
<td>4 RS-232 RJ-45; Up to 230 Kbps throughput; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD</td>
<td></td>
</tr>
</tbody>
</table>

#### ETHERNET

<table>
<thead>
<tr>
<th>PORTS</th>
<th>PortServer® TS 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 RJ-45 10/100 Mbps 10/100Base-T (auto-sensing); Full or half duplex</td>
<td></td>
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</table>

### POWER REQUIREMENTS

<table>
<thead>
<tr>
<th>POWER INPUT</th>
<th>9-30 VDC with locking barrel power connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER SUPPLY (INCLUDED)</td>
<td>12 VDC/1.5A max out; 100-240 VAC 50-60 Hz in (wall mount)</td>
</tr>
<tr>
<td>POWER SUPPLY (OPTIONAL)</td>
<td>12VDC extended temperature power supply sold separately</td>
</tr>
<tr>
<td>POWER CONSUMPTION</td>
<td>Typical: 4 W; Max: 6 W</td>
</tr>
<tr>
<td>PRODUCT SURGE PROTECTION (ESD)</td>
<td>4 kV burst (EFT) per EN61000-4-4, 2 kV surge transient per EN61000-4-5</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL

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

### APPROVALS

| SAFETY                            | UL/CUL 60950, IEC 60950 & CB |
| EMISSIONS/IMMUNITY                | CE, FCC Part 15 (Class A), EN55024, EN55022 Class A, A5/NZS 3548, CISPR 22, VCCI V-3/99.05 |

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### PortServer TS Family - Front

- Ethernet
- LEDs

### PortServer TS Family - Back

- 1-Port
- 2-Port
- 4-Port
<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>70002041</td>
<td>PortServer TS 1 Worldwide</td>
</tr>
<tr>
<td>70002043</td>
<td>PortServer TS 2 Worldwide</td>
</tr>
<tr>
<td>70002045</td>
<td>PortServer TS 4 Worldwide</td>
</tr>
</tbody>
</table>

For a full list of accessories, visit www.digi.com

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