

HARDENED  
SERIAL SERVERS



# PORTSERVER® TS MEI HARDENED

Hardened, Rugged Serial Servers for Outdoor Extended Temperatures

The PortServer TS MEI Hardened family of serial servers is designed for serial port expansion where environmental hazards demand extended safety features and operating tolerances. Extended operating temperature (-35° C to +74° C), conformal coated circuit board, NEMA TS 2 and Class 1 Div 2 certifications make these rugged serial servers ideal for use in outdoor applications. Digi's patented RealPort® COM port redirector creates a local COM or TTY port on the host computer, allowing existing software applications to work without modification.

The PortServer TS H MEI model is designed for serial-to-Ethernet connectivity in utility plants, pipelines, traffic

management facilities and other remote locations requiring extended operating temperatures.

Designed to meet NEMA TS 2 and other unique requirements in traffic management installations, the PortServer TS Hcc MEI model is ideal for network-enabling and remotely managing variable message signs, loop detectors, ramp meters or any RS-232/422/485 serial device. Specialized features include conformal coated PCA for moisture and corrosion protection, screw terminal power connector for durable and reliable power feed, and extended operating temperature tolerance.

## BENEFITS

- Robust, hardened model with extended temperature tolerance (-35° C to +74° C)
- 1, 2 or 4 RS-232/422/485 switch-selectable serial ports
- Patented RealPort for COM/TTY port control and management
- Monitoring and diagnostic utility
- Data security via SSHv2 and SSL/TLS
- Easy configuration through web interface (HTTP/HTTPS)
- Tunable for low latency or optimized for throughput
- Locking barrel power connector

## RELATED PRODUCTS



PortServer®  
TS



PortServer®  
TS MEI



PortServer®  
TS Haz MEI

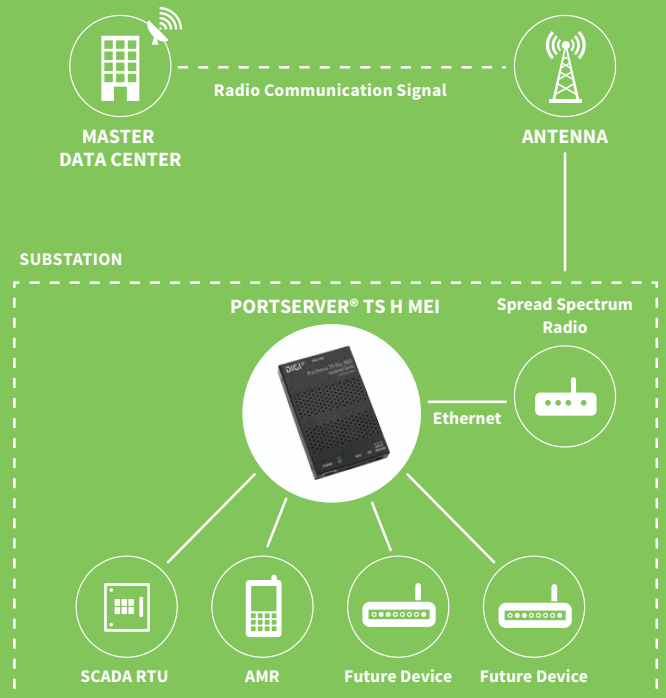


PortServer®  
TS M



PortServer®  
TS P

## APPLICATION EXAMPLE



| SPECIFICATIONS                        |                                                                                                                                                                                                                                              | PortServer® TS H MEI                                                                                                                                                                  | PortServer TS Hcc MEI |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>FEATURES</b>                       |                                                                                                                                                                                                                                              |                                                                                                                                                                                       |                       |
| <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, Extended Telnet RFC 2217, Telnet, Reverse Telnet, Modbus to Modbus/TCP protocol conversion support                                                                                    | UDP/TCP, Supports multiple unicasts, DHCP/RARP/ARP-Ping for IP Address assignment, Extended Telnet RFC 2217, Telnet, Reverse Telnet, Modbus to Modbus/TCP protocol conversion support |                       |
| <b>SECURITY</b>                       | SSHv2, SSL/TLS                                                                                                                                                                                                                               |                                                                                                                                                                                       |                       |
| <b>SOFTWARE</b>                       | Supports Digi's Realport® COM port redirector                                                                                                                                                                                                |                                                                                                                                                                                       |                       |
| <b>EXTENDED SAFETY</b>                | N/A                                                                                                                                                                                                                                          | Conformal coated circuit board, NEMA TS 2 compliant, Screw terminal connector for power                                                                                               |                       |
| <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>                         | 2.25 oz (64.00 g)                                                                                                                                                                                                                            |                                                                                                                                                                                       |                       |
| <b>OTHER</b>                          | Full modem and hardware flow control, Modem emulation, Port buffering, RJ45-DB-9F console adapter included for optional serial configuration, Wall mount kit included                                                                        |                                                                                                                                                                                       |                       |
| <b>INTERFACES</b>                     |                                                                                                                                                                                                                                              |                                                                                                                                                                                       |                       |
| <b>SERIAL</b>                         |                                                                                                                                                                                                                                              |                                                                                                                                                                                       |                       |
| <b>PORTS</b>                          | 1/2/4 RS-232/422/485 RJ-45 (switch-selectable); Up to 230 Kbps throughput; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD                                                                                                              |                                                                                                                                                                                       |                       |
| <b>ETHERNET</b>                       |                                                                                                                                                                                                                                              |                                                                                                                                                                                       |                       |
| <b>PHYSICAL LAYER</b>                 | 1 RJ-45 10/100 Mbps 10/100Base-T (auto-sensing); Full or half duplex                                                                                                                                                                         |                                                                                                                                                                                       |                       |
| <b>POWER REQUIREMENTS</b>             |                                                                                                                                                                                                                                              |                                                                                                                                                                                       |                       |
| <b>POWER INPUT</b>                    | 9-30 VDC                                                                                                                                                                                                                                     | 9-30 VDC @ 0.5 Amps max (screw terminal power)                                                                                                                                        |                       |
| <b>POWER SUPPLY</b>                   | 12 VDC extended temperature power supply sold separately; Bare-wire "pigtail" power connector included                                                                                                                                       | 9-30 VDC @ 525 mA max                                                                                                                                                                 |                       |
| <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                                                                                                                                                                       |                                                                                                                                                                                       |                       |
| <b>ENVIRONMENTAL</b>                  |                                                                                                                                                                                                                                              |                                                                                                                                                                                       |                       |
| <b>OPERATING TEMPERATURE</b>          | -35° C to +74° C (-31° F to 165° 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                                                                                                                                                                                                                       |                                                                                                                                                                                       |                       |
| <b>APPROVALS</b>                      |                                                                                                                                                                                                                                              |                                                                                                                                                                                       |                       |
| <b>SAFETY</b>                         | UL/CUL60950, IEC60950, CB                                                                                                                                                                                                                    | Class 1 Division 2, UL/CL60950, IEC60950 & CB                                                                                                                                         |                       |
| <b>EMISSIONS/IMMUNITY</b>             | CE, FCC Part 15 (Class A), EN55024, EN55022 Class A, AS/NZS 3548, VCCI V-3/99 .05                                                                                                                                                            |                                                                                                                                                                                       |                       |

| PART NUMBERS | DESCRIPTION             |
|--------------|-------------------------|
| 70001917     | PortServer TS 1 H MEI   |
| 70001918     | PortServer TS 2 H MEI   |
| 70001919     | PortServer TS 4 H MEI   |
| 70002039     | PortServer TS 2 Hcc MEI |
| 70002040     | PortServer TS 4 Hcc MEI |