PortServer® TS

Serial Servers

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

Overview

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, Linux, Windows XP, Windows 2000, Windows Server 2003, SCO OpenServer and Solaris. The RealPort authentication feature is compatible only with Windows XP, Windows 2000 and Windows Server 2003.
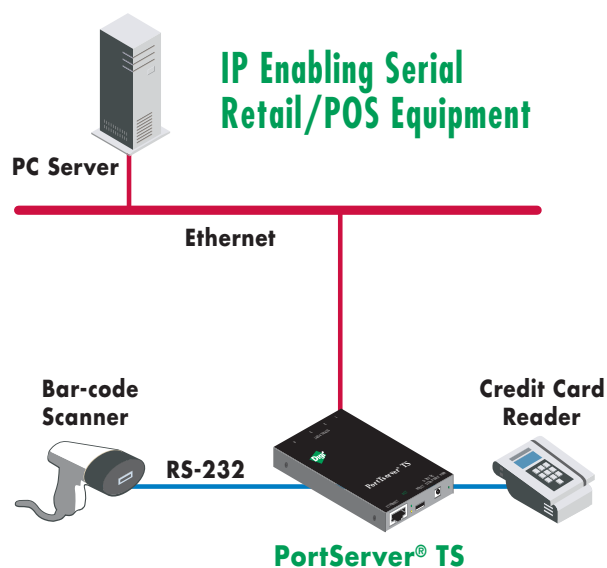
Target Applications

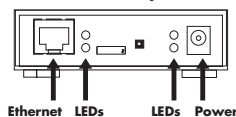Retail/POS   Medical/Healthcare   Security

Application Highlight

IP Enabling Serial Retail/POS Equipment

PC Server

Ethernet

Bar-code Scanner

RS-232

Credit Card Reader

PortServer® TS

Features/Benefits

- **1, 2 or 4 RS-232 serial ports for standard serial-to-Ethernet connectivity**

- **Ideal for applications requiring COM ports, serial tunneling, TCP/UPD socket 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**
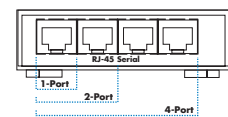
- **Easy web-based configuration (HTTP/HTTPS)**

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	Device-initiated patented RealPort® COM port redirector		
Status LEDs	Link, Activity, Power, Status		
Operating Systems	AIX, HP-UX, Linux®, SCO® OpenServer™ 5, SCO® OpenServer™ 6, Solaris™ Intel, Solaris™ SPARC, Windows XP®, Windows Server® 2003, Windows Server® 2008, Windows Vista®; Note: TCP/UPD Socket Services are operating system independent		
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	2.25 oz (64.00 g)		
Other	Full modem and hardware flow control, Modem emulation, Port buffering, RJ-45/DB-9F crossover cable included for optional serial configuration		
Interfaces			
Serial			
Ports	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, DC	4 RS-232 RJ-45; Up to 230 Kbps throughput; Signal support for TXD, RXD, RTS, CTS, DTR, DSR, DCD
Ethernet			
Ports	1 RJ-45 10/100 Mbps 10/100Base-T (auto-sensing); Full or half duplex		
Power Requirements			
Power Input	9-30VDC with locking barrel power connector		
Power Supply (included)	North America: 12VDC/.5A max out; 120VAC in (wall mount); International: 12VDC/.5A max out; 100-240VAC in (small brick)		
Power Supply (optional)	12VDC extended temperature power supply sold separately		
Power Consumption	Typical: 4 W; Max: 6 W		
Surge Protection	4 kV burst (EFT) per EN61000-4-4, 2 kV surge per EN61000-4-5		
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	1500VAC min per IEEE802.3/ANSI X3.263		
Serial Port Protection (ESD)	+15 kV air 6 AP and +8 kV contact discharge per IEC 100-4-2		
Approvals			
Safety	UL/CUL 60950, IEC 60950 & CB		
Emissions/Immunity	CE, FCC Part 15 (Class A), EN55024, EN55022 Class A, AS/NZS 3548, CISPR 22, VCCI V-3/99.05		

PortServer TS Family - Front

Ethernet   LEDs   LEDs   Power

PortServer TS 1/2/4 - Back

RJ-45 Serial

1-Port
2-Port
4-Port

Visit www.digi.com for part numbers.