TRAVERSIX

TCS-1002 Connectivity Server

Features

- **Application Transparency**
  - **Full Flow Control Support**
- **Firewall Traversal**
  - **No Port Forwarding Required**
- **Ruggedized**
  - **Small Form Factor**
  - **Industrial Temperature Rated**
  - **Locking Connectors**
- **Two Serial Ports**
- **Administration Utility**
  - **Browser-based**
  - **RS-232**
- **Secure**
  - **SSL**
  - **AES 128-bit Encryption**

The TCS-1002 connects remotely-located, serial-enabled devices to the Connectivity Client via the Connectivity Gateway as part of the Traversix Connectivity System. The Traversix Connectivity System provides an end-to-end solution for world-wide connectivity to previously inaccessible serial devices—even for devices behind firewalls, without any changes to the firewall or application.

Ruggedized
The TCS-1002 is designed to be located in small places that may have poor ventilation, extreme temperatures or high vibration. The TCS-1002's electronics are industrial temperature rated and all connectors use locking mechanisms, including the power connector. The heavy gauge steel packaging ensures the TCS-1002 can withstand the rigors of industrial applications and will not be easily moved by its attached cables when in a data center.
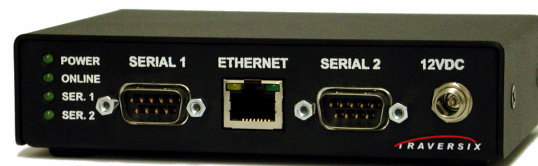
Firewall Traversal
The TCS-1002 requires no firewall changes to operate. Using smart port access technology, the TCS-1002 connects to the Connectivity Gateway using open outgoing ports. This is especially attractive when the TCS-1002 is deployed at third-party locations. No pin-holes, port forwarding or other changes are required in the third-party's firewall, greatly simplifying and speeding deployment.

Secure
The TCS-1002 is part of a highly secure system using SSL and AES 128-bit encryption. In addition, bi-lateral authentication between the TCS-1002 and the Connectivity Gateway must be successfully completed before any bearer traffic can be exchanged. Security is further enhanced by the TCS-1002's firewall traversal capability in not having the firewall expose an IP address or pin-hole—the TCS-1002 lets the firewall be a firewall and keep outsiders out.

Traversix Connectivity System
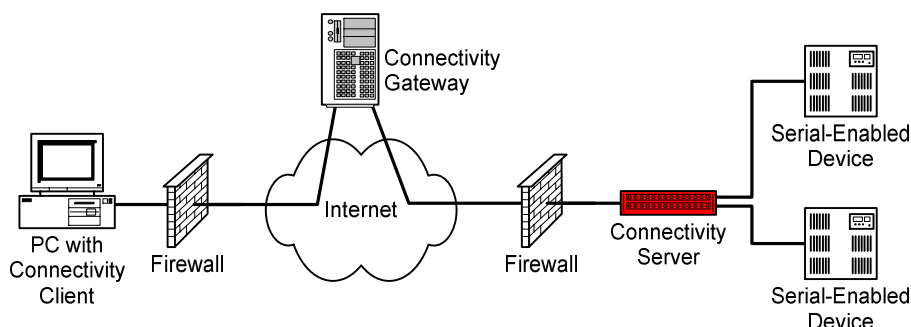
Easy to Install

For most installations, the TCS-1002 is self-configuring and requires no more effort than connecting the serial, Ethernet and power connectors. For installations requiring special configuration, pressing the mode switch places serial port 1 into administration mode. A second press of the switch returns the port to normal operation. A browser-based setup utility is also available.

Flow Control

The TCS-1002 communicates all standard control signals, and detects the flow control method being used by your application to ensure that no data is lost in the event of network congestion. For applications that do use flow control, the advanced buffering and network traffic management system of the TCS-1002 optimizes throughput and minimizes latency while ensuring application integrity.

Specifications

Model	TCS-1002
Serial Ports	2 RS-232 ports (9-pin D-sub, male, DTE)
Serial Interface Rates	Auto-detected 300 bps – 115,200 bps

Flow Control	Auto-detected
	  RTS / CTS
	  DTR / DSR-CD
	  XON / XOFF
	  None

Setup	Browser-based configuration utility in unit Command-line interface on serial port 1 (when in administration mode)
Administration	Browser-based central administration via Connectivity Gateway
Encryption	SSL AES 128-bit
LED Indicators	Power Online Serial 1 (Activity) Serial 2 (Activity) Ethernet Link Ethernet Activity
Ethernet Interface	RJ-45 connector 10 Mbps, half- or full-duplex
Dimensions	5.3 inches (13.5 cm) wide 3.9 inches (9.9 cm) deep 1.4 inches (3.6 cm) high
Weight	2.2 lbs (1.0 kg)
Operating Temperature	–40°C to +70°C, non-condensing
Power	12 VDC, 150 ma, AC adapter included.
Regulation Compliance	FCC Part 15 UL