



Access 4000 X.25 to TCP/IP Gateway

The Access 4000 offers comprehensive solutions for migration of legacy networks and devices to IP networking. The Gateway supports X.25 to TCP conversion methods like RAW and RFC 1006; X.25 over TCP encapsulation (XOT) for X.25 network replacement; and XOT to TCP conversion for IP hosts with no X.25 interface. The built-in terminal server supports legacy serial devices, sync HDLC, and LAPB conversion to X.25.



Overview

X.25 to TCP Conversion



X.25 Network Conversion



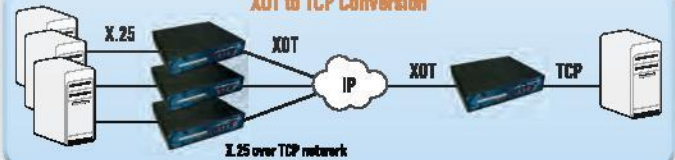
X.25/TCP Conversion

The X.25/TCP Gateway interfaces X.25 devices to TCP/IP devices. Multiple simultaneous connections are possible between X.25 logical channels and TCP sockets. This interconnection may be as simple as data only (RAW) transfer, or more complex like "message boundary preservation" for X.25 M-bit and Q-bit packets. Several standard and custom conversion methods are available. New conversions can be easily incorporated. The Gateway can connect directly to X.25 devices or to the X.25 network.

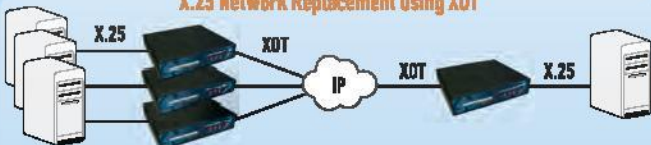
XOT to TCP Conversion

When remote devices support XOT or have an external XOT gateway for encapsulating X.25 over an IP network, the XOT to TCP Gateway can be used to directly convert the X.25 logical channels encapsulated in XOT to TCP sockets for IP hosts that don't support XOT, eliminating the need for an X.25 interface.

XOT to TCP Conversion



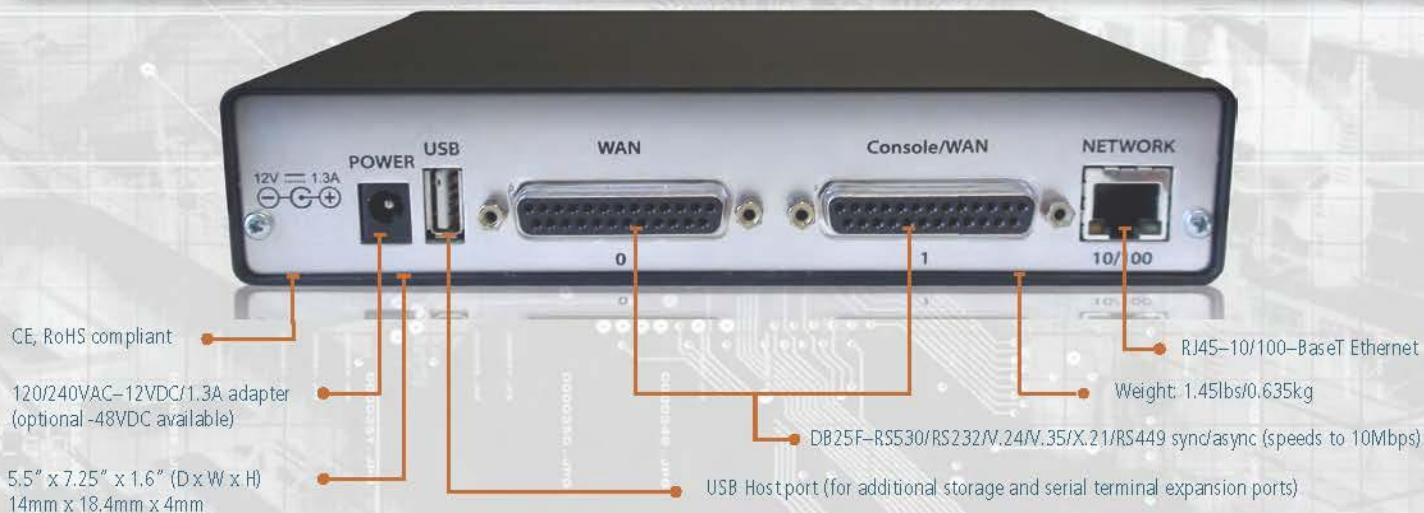
X.25 Network Replacement Using XOT



X.25 over TCP Encapsulation (XOT tunneling)

The XOT gateway is used when the X.25 network between X.25 devices and hosts is being replaced with an IP network. By tunneling the X.25 protocol over TCP, the Gateway allows for seamless integration without modification or re-configuration of the X.25 devices. All network addressing is preserved and an extensive translation table allows for flexible routing. By transporting the packets, the Gateway preserves all of the features of the X.25 protocol.

Technical Specifications



Gateway Features

- X.25–TCP conversion
- X.25 over TCP encapsulation (RFC 1613 XOT)
- XOT–TCP conversion
- X.25 switching
- Serial/X.28/X.29 terminal server
- HDLC and LAPB sync server
- Conversion methods: RAW, RFC1006, LINE mode, custom
- X.25 M-bit and Q-bit preservation
- Large, comprehensive address translation/routing table
- Connections can be initiated by X.25 or by TCP/IP devices

Management

- User-friendly web interface (HTTP, HTTPS)
- Telnet/SSH login
- SNMP, DNS, NTP
- Local/remote syslog
- 24/7/365 scheduler (cron)

X.25 Features

- DTE and DCE configurable on LAPB and X.25
- Up to 1024 logical channels per link
- Switched and permanent virtual circuits (SVC and PVC)
- Modulo 8 and 128
- Packet size facility negotiation from 16 to 4096 bytes
- Window size facility negotiation from 1 to 127
- Facilities: reverse charge, throughput class, hunt groups
- DTE Facilities: called and calling address extension

Network

- 10/100 Ethernet with auto-detection
- 802.1Q VLAN (multiple interfaces)
- DHCP or static IP assignment
- DNS client
- RADIUS authentication
- NTP client
- SSL secure socket encryption
- SSH Tunnels

Distributor



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Ordering Information

- PN: 4002-S04 – Access 4000 X.25-TCP/IP Gateway (AC)
- PN: 4002-S04-N – Access 4000 X.25-TCP/IP Gateway (DC)