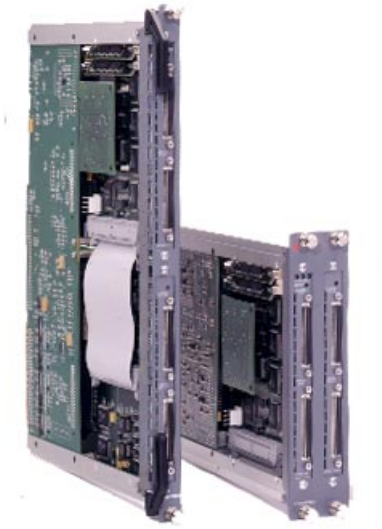
ONcore/ONline Communications Server

Provides Local Terminal and Remote Access Over Ethernet LANs



The ONcore and ONline Communications Servers, available with either 16 or 32 ports, allow users to access, from anywhere, the resources that they use everyday.

The ONcore/ONline Communications Server, based on the Xylogics Remote Annex 4000, combines terminal server, dial-in remote access using modems or Integrated Services Digital Network (ISDN) terminal adapters, shared dial-out to online services, and dial-up routing in a single, cost-effective module. The server provides multiprotocol terminal server support to connect to UNIX®, DEC™, or IBM® hosts. For remote access, the server supports remote users with dial-in access to the resources connected to an enterprise LAN.

The Communications Server allows you to easily attach low-cost terminals and other asynchronous devices to Ethernet LANs. The server allows a single terminal to connect to UNIX, DEC VMS™, or IBM hosts. It also provides TCP/IP to LAT and LAT to TCP/IP protocol translation, allowing a VMS host to communicate with a UNIX host or other device supporting the TCP/IP protocol. The server software image can be loaded over the network from a host, from another server, or from optional internal flash EPROMs.

Key Benefits:

- Provides LAN users with local and remote access to applications running on UNIX (TCP/IP), DEC (LAT), and IBM (TN3270) hosts
- Allows local or remote LAT and TCP/IP users to communicate via protocol translation
- Functions as a print server for serial printers, supporting LAT and TCP/IP hosts
- Furnishes remote dial-in and dial-out access with TCP/IP (SLIP, CSLIP, PPP and terminal emulation), Novell NetWare® (IPX), and Apple Remote Access (ARA) support, and dial-up routing
- Offers multiple levels of security including user authentication, audit trails, password encryption, Kerberos authentication, Security Dynamics SecurID Card, and dial back
- Supports industry standard V.34 modems and ISDN terminal adapters with data transfer rates up to 115.2 Kbps

Dual Processor, High Uptime Design

The ONcore/ONline Communications Server's dual processor (486SLC) design provides the power to handle high throughput — up to 115.2 Kbps for each port, and up to 16 simultaneous terminal sessions per port. On-board, nonvolatile EPROM memory retains configuration data supporting rapid restart after power outages or resets.

An optional 2 MB flash EPROM stores the module's operational image on-board, providing self-booting. Alternatively, the module can load from a UNIX, VMS, or TFTP server. Once loaded from a server or an on-board EPROM, the Communications Server can function as a load host for other servers.

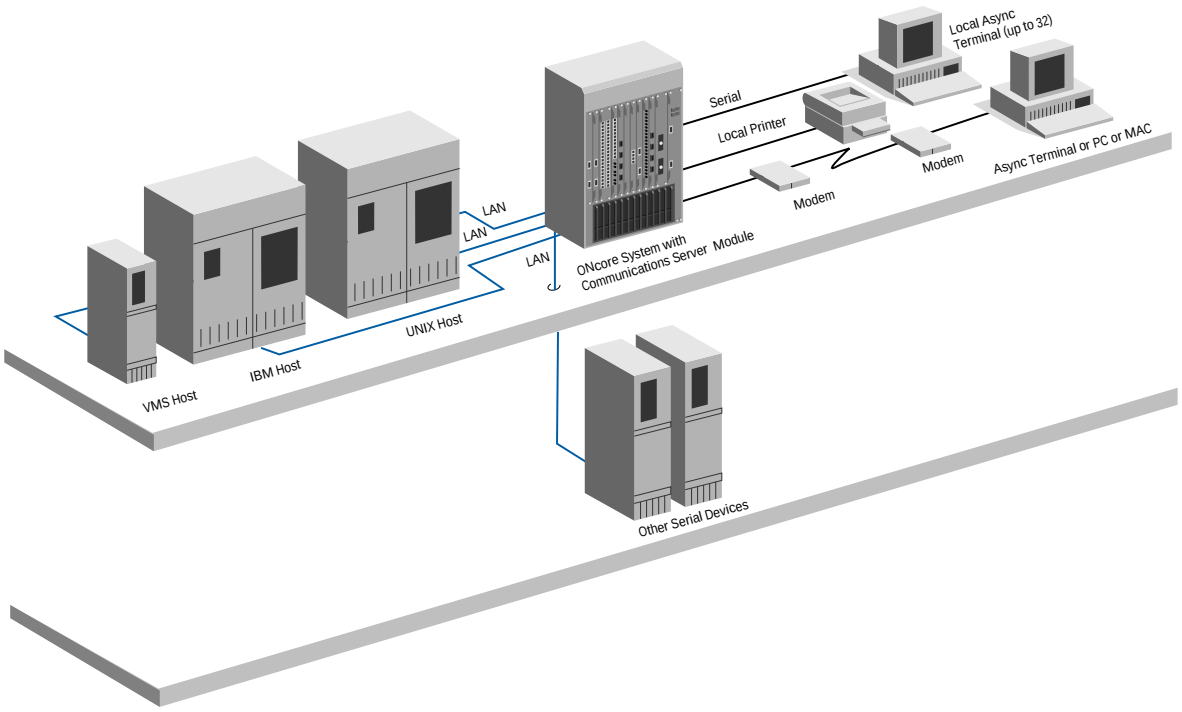
Front panel LEDs display module status at a glance.

Terminal Support

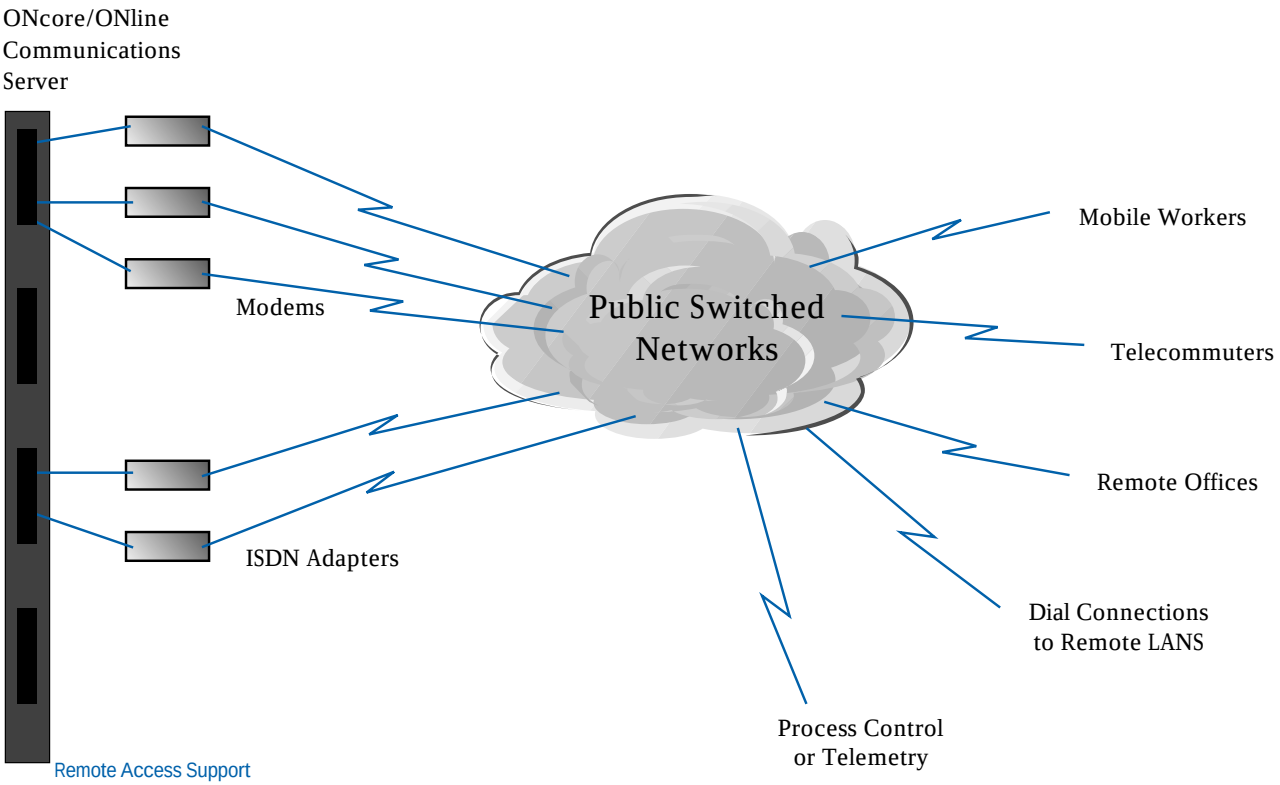
As a terminal server, the Communications Server module supports serial devices such as terminals, printers, and computer controlled equipment in manufacturing, process control, laboratory, or other environments.

TCP/IP, LAT, and TN3270 provide terminal-to-host communications in UNIX, DEC, and IBM environments. With a UNIX host, the Communications Server supports multiple TELNET and Rlogin sessions. The server's reverse TELNET utility allows ports on the server to perform as a local host port. In a DEC VMS environment, the server supports LAT and reverse LAT, plus TCP/IP to LAT translation. LAT translation to TCP/IP allows the data to be routed across LAN segments. In an IBM environment, the server supports TN3270, providing 3278 terminal emulation. The 7171 transparent mode supports PC file transfers to IBM hosts.

By connecting the console ports of multiple devices to the Communications Server, a systems administrator, using TELNET, can manage and troubleshoot remote networking equipment from a single console at a central site.



Terminal Server Support



Remote Access

The Communications Server's remote access features allow telecommuters, mobile users, and remote offices to connect to the enterprise LAN. The server supports remote dial-in to IPX™, TCP/IP and Apple® Remote Access (ARA) networks. The server's dual- processor architecture supports dial access data rates up to 115.2 Kbps per port allowing you to use the latest modem technologies including V.FAST/V.34 and ISDN services.

Security

To control network access, the Communications Server supports multiple levels of security. Security features include: user names and password verification, dial back, Security Dynamics Secure ID verification, and Kerberos authentication. Additional security features can prevent unauthorized users from gaining access to protected hosts or other services on the network.

Routing

The Communications Server can provide dial IP LAN-to-LAN connections using PPP, SLIP or CSLIP. IP users can also use active RIP to communicate across LAN segments. The server also supports dial IPX routing over SLIP.

Integrated Management

The Communications Server supports a resident SNMP agent providing in-band monitoring and configuration control from any SNMP-compliant management application. The module can also be managed out-of-band using TELNET and the RS-232 port on the hub. A graphical management module is also available integrated with the Transcend® Enterprise Manager, and supported for both Windows® and UNIX on the following management platforms: HP OpenView®, Solstice SunNet Manager™, and NetView® for AIX.

Specifications

ONcore/ONline Communications Server

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Peru: 51 1 221 5399
Venezuela: 58 2 953 8122

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Rome, Italy: 39 6 5922769
Spain: 34 1 3831700

3Com Middle East
971 4 349049

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Finland: 358 0 435 420 67
Norway: 47 22 18 40 03
Sweden: 46 8 632 56 00

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27 11 807 4397

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Marlow: 44 1628 897000

General

Number of Ports: 16 or 32 asynchronous

Serial Port Signaling: RS-232C (V.24 compliant)

Connectors: Two or four 68-pin SCSI 2; each connector supports eight connections

Maximum Asynchronous Data Rate: 115.2 Kbps

Processor: Dual 20Mhz 80486SLC

Environmental

Operating temperature: 0°C to +50°C (32°F to 122°F)

Humidity: 95% maximum, noncondensing

Regulatory Compliance

Emissions: FCC Part 15, Class A; EN55022(CISPR 22), Class A; VCCI Level 1; EMC Directive 89/336/ECC

Protocols Supported

SNMP, TFTP, SLIP, PPP, CSLIP, IPX, RIP, ARA, LAT, TCP/IP, TN3270, SAP

Management

SNMP: MIB II, MIB Extensions

Security

Provides multiple levels of security including user authentication, audit trails, password encryption, Novell Bindery, automatic termination, and restricted access. The server also supports Kerberos authentication, Security Dynamics SecurID Card, and dial back.

Ordering Information

16-Port Communications Server Module for the ONline System Concentrator	3C95117C-XS[1, 3]
32-Port Communications Server Module for the ONline System Concentrator	3C95133C-XS[1, 3]
16-Port Communications Server Module for the ONcore Switching System	3C96117C-XS[1, 3]
32-Port Communications Server Module for the ONcore Switching System	3C96133C-XS[1, 3]
Communications Server software in 2 Mb Flash kit for self-boot	3C9XS-FLASH-UPG[1]
Communications Server software for UNIX Host	3C9XS-UNIX-HOST[1]
Communications Server software for DEC Host	3C9XS-DEC-HOST[1]
Software Key for IPX	3C9XS-IPX-SKEY[1,2]
Software Key for LAT — 16 Ports	3C9XS-LAT16-SKEY
Software Key for LAT — 32 Ports	3C9XS-LAT32-SKEY
Software Key for TN3270	3C9XS-3270-SKEY
Software Key for Dial-up IP Routing	3C9XS-IPRT-SKEY
Software Key for Apple Remote Access (ARA)	3C9XS-ARAP-SKEY
2 Mb Upgrade (required for IPX support)	3C9XS-2M-UPG[2]
Cable — 68-pin SCSI to two 50-pin Telco male	3C9XS-TELCO-CBL[3]
Cable — 68-pin SCSI to eight RJ-45	3C9XS-RJ45-CBL[3]

[1] Communications Server software must be ordered for Host or Flash
[2] XS-IPX-SKEY requires XS-2M-UPG
[3] Each cable supports 8 ports. Order 2 cables for 16-port modules and 4 for 32-port modules.

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