



# AccessBuilder Family

## High-Performance Remote Access Servers with ISDN

*Dial-in/Dial-out connections to workgroup and enterprise networks for remote users*

The high performance AccessBuilder family offers flexibility and industry-leading interoperability with a wide range of multiprotocol, multi-platform environments.



The AccessBuilder family of dial-in/dial-out remote access servers gives mobile computer users and remote office workers full access to workgroup, departmental, and enterprise network resources, including Internet access furnished through the enterprise.

Remote users dial into the AccessBuilder over analog or digital (ISDN) telephone lines, achieving direct, transparent links

to Ethernet and Token Ring LANs—just as if locally connected.

AccessBuilder products support a broad range of computing platforms, network operating systems, and protocols fitting a variety of network environments. They provide multiprotocol bridging and routing for both client-to-LAN connections and wide-area LAN-to-LAN extensions.

### Key Benefits



- Dial-in/dial-out connections for geographically dispersed employees, including business travelers, telecommuters, and remote office workers.
- Multiprotocol bridging and routing for client-to-LAN connections and LAN extensions to central site networks.
- Support for the most widely used desktop systems, LAN operating systems, and network protocols.
- Transcend™ graphical SNMP management software for IP and IPX environments.
- Advanced suite of built-in security features coupled with comprehensive NOS and third-party security support.
- Simultaneous analog (modem) and digital (ISDN) connectivity on a single platform.
- High-speed support for both remote users and backbone connections.
- Flexible, dynamic bandwidth management to reduce dial-up line charges.





## High-Performance Remote Access Server Family

With two platforms in the AccessBuilder family, 3Com provides a choice of high-performance solutions to businesses with mobile workers or geographically dispersed sites.

The SuperStack II AB2000 serves the needs of remote office and workgroup environments, with fixed WAN ports for Ethernet configurations and easy-to-use management features.

The multi-protocol, scalable AB4000 serves the enterprise marketplace, where integrating disparate network environments is a key consideration. Available in Ethernet or Token Ring configurations, the AB4000 supports both analog and digital (ISDN) WAN technologies.

The AccessBuilder line is designed to meet the demanding requirements of today's remote users. An Intel i960® processor endows the AccessBuilder with a high-performance RISC architecture. Intelligent asynchronous cards reduce protocol processing overhead to

further enhance performance. Each ISDN line in an AB4000 BRI module is serviced by a dedicated processor to guarantee maximum throughput.

The AccessBuilder's high-performance hardware platform works with 3Com's Personal Routing™ system software architecture to give remote node clients the same functionality as local nodes and handles multiple active client sessions without a performance penalty.

## Complete End-to-End Support

AccessBuilder servers support a broad range of computing platforms, operating systems, and network protocols for seamless access from any location. Remote PC, Macintosh, and UNIX®-based computer users can share dial-in connections via analog modems, ISDN, or Switched 56 DSU.

For the remote client, the AccessBuilder supports all the popular desktop environments. Remote users can opt for either AccessBuilder's own Windows, DOS, or OS/2 client software, or leading third-party PPP and SLIP client packages, including Microsoft® Windows™ 95 and Windows NT™ Remote Access Service (RAS) dial-up clients.

In addition to its broad range of supported network operating systems, the AccessBuilder Client includes such easy-to-use features as:

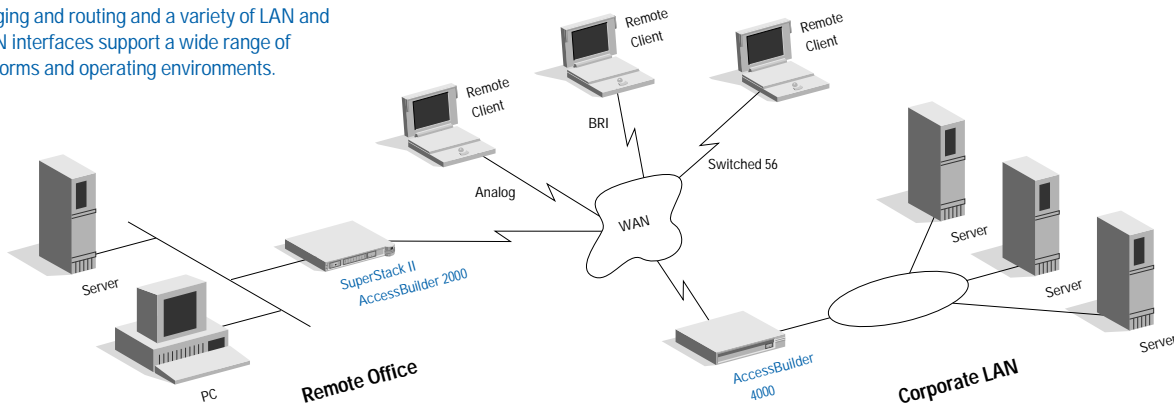
- Windows-based installation program
- Windows-based client utilities with integrated phone book and multiple, "one-click" icons for dialing frequently accessed sites
- Extensive Windows-based online help system
- Status tool and modem LED simulation to aid troubleshooting

## Flexible Standards-based Management

AccessBuilder servers are easy to configure and administer. The AccessBuilder architecture provides network administrators a choice of management options, including:

- **In-band SNMP management**  
AccessBuilder servers come equipped with Simple Network Management Protocol (SNMP) resident agents to allow in-band monitoring of the server by any SNMP management station. AccessBuilder management can be integrated with any SNMP-compatible platform, including Hewlett-Packard's OpenView®, Sun Microsystems's SunNet™ Manager, and IBM's NetView®/6000.

AccessBuilder products provide high-performance remote access connections for both client-to-LAN and LAN-to-LAN. Concurrent bridging and routing and a variety of LAN and WAN interfaces support a wide range of platforms and operating environments.



- **Out-of-band and local management** SNMP management stations can accomplish out-of-band and local management using the AccessBuilder's command line interface via the console port or dial-up sessions. TCP/IP managers can use Telnet to perform the same tasks.
- **3Com's Transcend SNMP-based management applications** 3Com's Transcend AccessBuilder Manager provides a graphical representation of the AccessBuilder's exterior chassis and dial-up ports, allowing for an intuitive point-and-click configuration. Set-up time is reduced through such features as:
  - Auto-discovery of AccessBuilder servers on a network
  - A "Guided Configuration" sequence to quickly enable client-to-LAN connections
  - Transcend management support over TCP/IP and IPX networks
 Point-and-click monitoring of real-time status information simplifies ongoing management tasks. Additionally, a Transcend station at the central site can perform end-node management of remote clients who are using 3Com Impact ISDN ISA adapters.

## Advanced Security

AccessBuilder servers provide comprehensive options for secure remote access. Administrators can choose either the AccessBuilder's built-in security or the AccessBuilder's support of leading third-party hardware devices and security servers to complement any LAN's existing security arrangements and provide additional security features.

The AccessBuilder built-in security prevents unauthorized network access through password protection, standard authentication schemes like PAP and CHAP, and automatic call-back. CallerID validation denies access to unauthorized ISDN calls before the call is even answered. In AppleTalk environments, AppleTalk zone filtering hides sensitive AppleTalk zone resources from remote users. AccessBuilder servers automatically log and report all unauthorized access attempts to the management station.

Third-party, software-based security servers can provide centralized security to multiple AccessBuilders. The AccessBuilder will forward remote access requests to the central security server for authentication. When these security servers operate as integrated components of an existing network operating system, such as Novell® NetWare® and Microsoft Windows NT, AccessBuilder servers participate in an easily managed, common authentication system covering both local and remote users.

Optional security support is available for:

- AccessBuilder Name Server, the AccessBuilder's native software-based security server, which runs externally on the Sun OS 4.1.x platform
- Novell NetWare Bindery Services and Novell NetWare Directory Services (NDS)
- Windows NT Domain-based Authentication
- OSF/DCE Security Services (Kerberos)
- Security Dynamics ACE Server with SecureID support, running on Sun OS 4.1x, Solaris 2.3, and HP-UX platforms
- TACACS+ with servers from Digital Pathways, Security Dynamics, and Enigma Logics

AccessBuilder servers also work with hardware security systems from leading third-party vendors, including Digital Pathways, LeeMah, and Security Dynamics.

## Cost-Effective Bandwidth Management

The AccessBuilder's sophisticated bandwidth management features efficiently control line charges to reduce the costs of remote networking for client-to-LAN and LAN-to-LAN connections.

Dial-on-demand keeps line connections open only when remote access connectivity is required. To save online charges, connections are torn down when network resource requests have been satisfied. Remote ISDN users can employ ISDN's fast call setup and be transparently reconnected to the network whenever network resources are needed. With the 3Com Impact ISDN ISA adapter, IP and IPX spoofing rebuilds the connection for end-user

### High-Performance Scalable Networking

High-Performance Scalable Networking is 3Com's strategy to address growing performance needs. It provides core products for a complete remote solution—from the remote site to the WAN—that integrate with the existing network infrastructure yet will support future technologies. AccessBuilder remote servers, for example, are upgradeable from switched analog access configuration to 56/64-Kbps and ISDN services.



WAN ports

- Software-configurable asynchronous ports for client-to-LAN and LAN-to-LAN
- User upgradeable flash memory for easy software updates and maintenance

## AccessBuilder 4000

### A high-performance enterprise solution for the central site

Full-featured and scalable, the AccessBuilder 4000 is an ideal enterprise remote access server. It offers broad connectivity options for enhanced interoperability, supporting a wide range of network technologies and protocols.

AccessBuilder 4000 servers can handle a mix of up to 16 asynchronous, synchronous, and ISDN connections simultaneously.

The AccessBuilder 4000 chassis accommodates any two of the following:

- 8-port 115Kbps asynchronous module
- 4-port ISDN BRI modules (each BRI port has two 64Kbps B-channels and one 16Kbps D-channel, available in either the U-interface for North America or the S/T interface for Europe and Japan)
- Single-port Fractional T1/E1 synchro-

nous module

As the network expands, additional AccessBuilder servers administered with centralized management and security facilities can be installed to provide more dial-in ports.

For Ethernet connections, AUI, BNC, and RJ-45 connectors provide links to Thicknet and Thinnet coax and 10BaseT twisted pair wiring. For Token Ring, a standard 9-pin D connector on the AccessBuilder 4000 Token Ring Server provides a link to shielded twisted-pair (STP) or IBM® Cabling System wiring. An RJ-45 connector accommodates Token Ring unshielded twisted pair (UTP).

- Modular architecture expandable to 16 concurrent asynchronous or ISDN connections
- Simultaneous ISDN and asynchronous support on one platform
- Concurrent multiprotocol bridging and routing supports IP and IPX (routed or bridged), and AppleTalk, NetBEUI, NetBIOS, DECnet®, VINES®, and other IEEE 802.3 protocols (bridged)
- User upgradeable flash memory for easy software updates and maintenance
- Ethernet and Token Ring models available

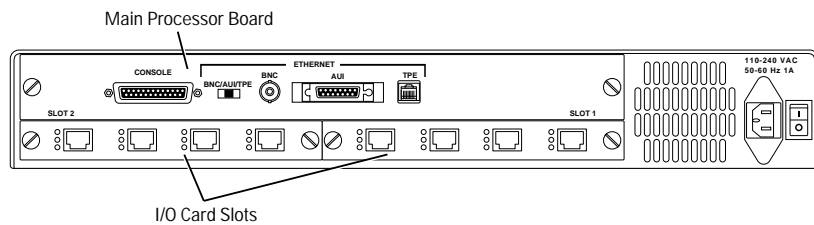
## A Complete Remote Access Offering

AccessBuilder servers offer an ideal solution for the needs of small workgroups and individual remote offices connecting to central site network resources.

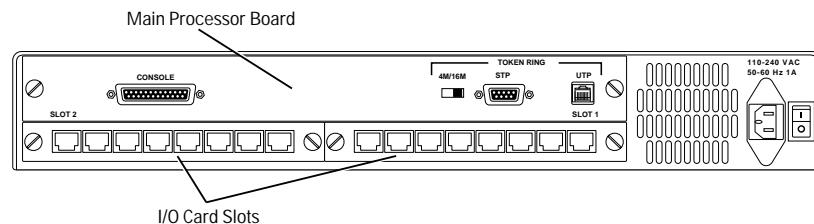
To handle higher levels of traffic between geographically dispersed sites — for example, between large branch offices and the headquarters network—3Com offers the SuperStack II NETBuilder® line.

Just as the Personal Routing system architecture ensures high-quality AccessBuilder connections, 3Com's Boundary Routing™ system architecture simplifies the administration of multiple SuperStack II NETBuilder routers by consolidating them into a single cohesive system.

Stackable SuperStack II AccessBuilder 2000 servers offer plug-and-play simplicity. AccessBuilder 4000 servers are expandable, with I/O slots for up to 16 high-speed Analog or ISDN dial-up lines.



AccessBuilder 4000, Ethernet, rear view



AccessBuilder 4000, Token Ring, rear view

# AccessBuilder Feature Matrix

Feature	4000	2000
<b>Processor</b>	i960	i960
<b>Rack Mountable</b>	Yes	Yes, also interconnects with SuperStack II Family
<b>Redundant Power</b>	NA	Yes, as part of SuperStack II
<b>FLASH memory</b>	Yes	Yes
<b>LAN Interfaces</b>	Ethernet (1) AUI, BNC, UTP or Token Ring	Ethernet (1) AUI, UTP
<b>Serial Ports</b>		
Modular	Yes—I/O modules	NA
Scaleable	Yes—I/O modules	NA
Asynchronous	8/16 ports @ 115.2Kbps RJ45 Connectors (cables included)	2204: 4-ports @ 115.2Kbps (cables included)
ISDN Interface	4-port BRI with S/T or U interface ANSI V.120 and synchronous mode	External Terminal Adapters
Synchronous	1-port Frac T1/E1 and leased lines (V.35, RS-449, RS232, X.21)	NA
<b>Individual-to-LAN Network Protocols</b>		
Network Protocols	IP, IPX, AppleTalk, NetBEUI, Banyan, DECNet, XNS	IP, IPX, AppleTalk, NetBEUI
Dial-on Demand	Yes*	No
Bandwidth-on-Demand	Yes*	No
<b>Serial Protocols</b>	PPP, PPP ML, SLIP, ARA 1.0/2.0	PPP, SLIP, ARA 1.0/2.0
<b>Routing Protocols</b>	RIP	RIP
<b>LAN-to-LAN</b>		
Routed Network Protocols	IP, IPX	IP, IPX
Bridged Network Protocols	NetBEUI, AppleTalk, Banyan Vines, DECNet, XNS and other 802.3	NetBEUI, AppleTalk

\*Applies to AccessBuilder 4000 ISDN Modules in conjunction with the Impact ISA Adapter.

Feature	4000	2000
<b>LAN-to-LAN, continued</b>		
Dial-on Demand	Yes	Yes
Bandwidth-on-Demand	Yes	Yes
Leased Line	Yes, using synchronous module	NA
<b>Compression</b>	Yes (internal with ISDN interface)	Yes (with external modems)
<b>Client Software</b>		
Windows, DOS	Yes	Yes
Windows NT (IP, IPX)	Yes	Yes
Windows 95 (IP, IPX)	Yes	Yes
OS/2	Yes	No
Includes AccessBuilder Client for Windows	Yes	Yes
<b>Management</b>		
SNMP-MIB II and Private Extensions	Yes	Yes
SNMP Managed over IP and IPX	Yes	Yes
Transcend AccessBuilder Manager	Included	Included
Telnet	Yes	Yes
Console Port (local or via modem)	Yes	Yes
<b>Security</b>		
User Name, Password, and Callback	Yes	Yes
CHAP/PAP	Yes	Yes
ISDN CallerID	Yes	No
Support Third Party External Hardware Devices	Yes	Yes
Support LAN-Based External Security Servers	Yes	Yes
Network Filters	Yes	Yes

## For this configuration and these needs. . .

Customer Situation	Functionality	Solution	Technology
Extensive multiprotocol, multiplatform access to enterprise LANs for business travelers, telecommuters, and field representatives	Up to 16 remote client-to-LAN and LAN-to-LAN Token Ring connections with either high-speed asynchronous (115Kbps) or ISDN BRI links.	AccessBuilder 4000 Token Ring	Personal Routing
	Up to 16 remote client-to-LAN and LAN-to-LAN Token Ring connections with either high-speed asynchronous (115Kbps) or ISDN BRI links.	AccessBuilder 4000 Ethernet	Personal Routing
Enterprise LAN access for remote office workers and workgroups serving 5 to 50 users	Up to 8 remote client-to-LAN or LAN-to-LAN connections with high-speed asynchronous links	SuperStack II AccessBuilder 2208	Personal Routing
	Up to 4 remote client-to-LAN or LAN-to-LAN connections with high-speed asynchronous links	SuperStack II AccessBuilder 2204	Personal Routing
Synchronous WAN communications	Single port for LAN-to-LAN leased line connections	AB4000 Synchronous interface module	Internetworking

## Here's the right solution

# Specifications

## AccessBuilder Family Remote Access Servers

### Dimensions and Weight

#### AccessBuilder 4000

Length: 11 in/27.9 cm

Width: 17 in/43.1 cm

Height: 2-1/2 in/6.3 cm

Weight: Chassis: 12lb/5.40 kg

Shipping weight: 15 lb/6.75 kg

#### SuperStack II AccessBuilder 2000

Length: 11 in/27.9 cm

Width: 17 in/43.1 cm

Height: 2-1/2 in/6.3 cm

Weight: Chassis: 12lb/5.40 kg

Shipping weight: 15 lb/6.75 kg

### Power Supply

#### AccessBuilder 4000

AC Input: 115 V or 230 V autosensing, -22% to +10%, single phase, 48 to 66 Hz, 100 watts max.

DC Output: V1: +5V/3.5 Amps, V2: +12V/2.0 AMPS, V3: -12V/0.5 amps, V4: -5V/0.5 amps

Fuse: 230 V/3 Amps

#### SuperStack II AccessBuilder 2000

AC Input: 115 V or 230 V autosensing, -22% to +10%, single phase, 48 to 66 Hz, 100 watts max.

DC Output: V1: +5V/3.5 Amps, V2: +12V/2.0 AMPS, V3: -12V/0.5 amps, V4: -5V/0.5 amps

Fuse: 230 V/1 Amp

### Environmental Ranges

#### AccessBuilder 4000

Operating Temperature: 32° to 122° F (0° - 50° C)

Storage Temperature: -40° to 168° F (-40° to 78° C)

Altitude: Sea Level to 15,000 ft (4,570 m)

Humidity: 95% max. noncondensing

Heat output: 136 BTU/hr max.

#### SuperStack II AccessBuilder 2000

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

Storage Temperature: -40° to 168° F (-40° to 78° C)

Altitude: Sea Level to 15,000 ft (4,570 m)

Humidity: 95% max. noncondensing

Heat output: 136 BTU/hr max.

### Real-time Clock

#### AccessBuilder 4000

Type: Ni-Cd, rechargeable, 3.6 V/50 mah

Nominal Life: 2 weeks, without power

Recharge capability: Fully charged within 2 days under power

#### SuperStack II AccessBuilder 2000

Type: Lithium, 3.6 V

Nominal Life: 7 years

### Asynchronous Cable Specifications

#### AccessBuilder 4000

Output Signals: Data Terminal Ready (RJ-45 pin 1 to DB-25 pin 20); Transmitted Data (RJ-45 pin 3 to DB-25 pin 2); Request to Send (RJ-45 pin 7 to DB-25 pin 4)

Input Signals: Received Data (RJ-45 pin 2 to DB-25 pin 3); Ring Indicator (RJ-45 pin 5 to DB-25 pin 22); Clear to Send (RJ-45 pin 6 to DB-25 pin 5); Carrier Detect (RJ-45 pin 8 to DB-25 pin 8)

#### SuperStack II AccessBuilder 2000

Output Signals: Data Terminal Ready (DB-25 pin 20); Transmitted Data (DB-25 pin 2); Request to Send (DB-25 pin 4)

Input Signals: Received Data (DB-25 pin 3); Ring Indicator (DB-25 pin 22); Clear to Send (DB-25 pin 5); Carrier Detect (DB-25 pin 8)

### Mean Time Between Failure (in hours)

#### AccessBuilder 4000

Power Supply: 171,000

Ethernet Motherboard: 174,000

Token Ring Motherboard: 171,000

8-port high-speed Async I/O Module: 564,000

ISDN S/T Module: 241,000

ISDN U Module: 225,000

#### SuperStack II AccessBuilder 2000

Power Supply: 172,000

Ethernet Motherboard: 66,000

### Console Specifications

#### AccessBuilder 4000

PC or ASCII: VT-100 compatible, ASCII code emulation

Serial port: 8-bit data, no parity, one stop bit, 9600 baud rate

Flow control: RTS-CTS

DTE: Configured for direct terminal connection

#### SuperStack II AccessBuilder 2000

PC or ASCII: VT-100 compatible, ASCII code emulation

Serial port: 8-bit data, no parity, one stop bit, 9600 baud rate

Flow control: RTS-CTS

DTE: Configured for modem connection. Direct connection requires a null modem cable.

### WAN Interfaces

#### AccessBuilder 4000

Asynchronous: up to 16 ports, up to 115.2Kbps per port

Synchronous: RS-449, RS-232, X.25, V.35

### Network Interfaces

#### AccessBuilder 4000

Ethernet: AUI, RJ-45 (10BASE-T), BNC

Token Ring: DEB-9 and RJ-45 at 4 or 16 Mbps

#### SuperStack II AccessBuilder 2000

Ethernet: AUI, RJ-45 (10BASE-T), BNC

### Agency Approvals

#### AccessBuilder 4000 Token Ring

UL; CSA; CISPR 22B, FCC Class B

#### AccessBuilder 4000 Ethernet

UL; CSA; CISPR 22B, FCC Class B

#### SuperStack II AccessBuilder 2000

UL; CSA; CISPR 22B, FCC Class B

### CCITT Standards

#### AccessBuilder 4000

1.430: ISDN BRI Layer 1

Q.921: ISDN BRI Layer 2

Q.931: ISDN BRI Layer 3

### ISDN Protocols and Approvals

#### AccessBuilder 4000

U.S.A.: AT&T 5ESS Custom, Northern Telecomm DMS 100, National ISDN-1; ISDN Ordering Code (IOC) 3ComA\* J 6

Canada: AT&T 5ESS Custom, Northern Telecom DMS 100, National ISDN-1; approval 2299 6446 A

Germany (CE Mark): Euro-ISDN (NET3, German Delta); approval A118390F

Switzerland (CE Mark): Euro-ISDN (Net3); approval BA/AOM-95.0250.I.N

France: VN3 and Euro-Numeris; approval 95199B

Japan: INS-64 (JATE); approval T95-5082-0

New Zealand: Euro-ISN; approval PTC231/95/022

Singapore: ISDN1-ISTA-AA-1186-95

Malaysia: ISTA/14A/019615

Hong Kong

Europe\* (CE Mark for Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom): Euro-ISDN (NET3); approval HDTP/KR/167/260121

### Software Protocols

#### AccessBuilder 4000

Ethernet: SNMP, IP, UDP, TFTP, ICMP, BootP, ARP, RIP, SLIP, PPP, IPX, NetWare RIP, SAP, ARAP, DDP, NBP, RTMP, ZIP, AEP, AARP, IPCP, IPXCP, BCP

Token Ring: SNMP, IP, UCP, TFTP, ICMP, BootP, ARP, RIP, SLIP, PPP, IPCP, IPXCP, IPX, NetWare RIP, SAP

#### SuperStack II AccessBuilder 2000

Ethernet: SNMP, IP, UDP, TFTP, ICMP, BootP, ARP, RIP, SLIP, PPP, IPX, NetWare RIP, SAP, ARAP, DDP, NBP, RTMP, ZIP, AEP, AARP

### Third-Party Device Support

Scripts are included for popular modems and ISDN terminal adapters. See product specifications for complete listing.

### Client-to-LAN

#### Ethernet

Operating Systems client: Novell NetWare, Microsoft LAN Manager, Microsoft Windows for Workgroups, Banyan VINES, DEC PATHWORKS,<sup>™</sup> IBM LAN Server

Third-party client packages: Windows-95, Windows NT 3.5x, AppleTalk Clients ARA 1.0, ARA 2.0, most popular TCP/IP clients with SLIP or PPP support (see product specifications for complete listing)

#### Token Ring

Operating Systems client: Novell NetWare, Microsoft LAN Manager, Microsoft Windows for Workgroups, Banyan VINES, DEC PATHWORKS, IBM LAN Server

Third-party client packages: Windows-95, Windows NT 3.5x, AppleTalk Clients ARA 1.0, ARA 2.0, most popular TCP/IP clients with SLIP or PPP support (see product specifications for complete listing)

#### LAN-to-LAN

Routing: IP and IPX

Ethernet Bridging: AppleTalk, DECnet, XNS, NetBIOS, NetBEUI, and other 802.3 protocols

Token Ring Source Routing

\* Check with local 3Com representative for country availability.



# Specifications

## AccessBuilder Family Remote Access Servers

### 3Com Corporation

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Santa Clara, CA 95052-8145  
Phone: 800-NET-3Com  
or 408-764-5000  
Fax: 408-764-5001  
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<http://www.3com.com>

### 3Com ANZA

ANZA East: 61 2 9937 5000  
ANZA West: 61 3 9653 9515

### 3Com Asia Limited

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Shanghai, China: 86 21 6374 0220  
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Hong Kong: 852 2501 1111

Indonesia: 62 21 523 9181

Korea: 82 2 319 4711

Malaysia: 60 3 732 7910

Singapore: 65 538 9368

Taiwan: 886 2 377 5850

Thailand: 662 231 8151

### 3Com Benelux B.V.

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Netherlands: 31 30 6029700

### 3Com Canada

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44 1628 897000

### 3Com France

33 1 69 86 68 00

### 3Com GmbH

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42 2 21845 800  
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Munich, Germany: 49 89 627320  
Poland: 48 22 6451351  
Switzerland: 41 31 996 14 14

### 3Com Ireland

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### 3Com Japan

81 3 3345 7251

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Peru: 51 1 422 9971  
Venezuela: 58 2 953 8122

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Rome, Italy: 39 6 5917756  
Spain: 34 1 3831700

### 3Com Middle East

971 4 349049

### 3Com Nordic AB

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Finland: 358 0 435 420 67  
Norway: 47 22 18 40 03  
Sweden: 46 8 632 91 00

### 3Com South Africa

27 11 807 4397

### 3Com UK Ltd.

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Manchester: 44 1618 737717  
Marlow: 44 1628 897000

### Management

Transcend AccessBuilder Manager  
Windows-based configuration (included)

Transcend Enterprise Manager for  
Windows (v. 3.0)

SNMP: MIB II, MIB extensions

Command Line UI: console or  
asynchronous ports

Telnet (TCP/IP)

### Security

Centralized Security Servers: Security  
Dynamics ACE Server, Novell NetWare  
Directory Services and NetWare  
Bindery, and OSD/DEC Security  
Services, and Windows NT Domain-  
based security

Password Protection, call back, resource  
access control, PPP security (PAP and  
CHAP), security event log, integration  
with third-party security devices and  
schemes

### Software Driver Interface

Network Driver Interface Specification  
(NDIS)

NetWare Open Data-link Interface  
(ODI)

Packet Driver Specification (PDS)

### Internet Standards Compliance

Internet Protocol (IP) RFC 791  
User Datagram Protocol RFC 768

Internet Control Message  
Protocol (ICMP) RFC 792

Transmission Control  
Protocol RFC 793

Ethernet Address Resolution  
Protocol RFC 826

Telnet Protocol (TELNET) RFC 854  
Telnet Option Specification RFC 855

Telnet Echo Option  
(TOPT-ECHO) RFC 857

Suppress Go Ahead Option  
(TOPT-SUPP) RFC 858

IP Datagrams Over Ethernet  
Networks RFC 894

Reverse Address  
Resolution Protocol RFC 903

Broadcast Internet  
Datagrams RFC 919

Broadcast Internet Datagrams  
in the presence of subnets RFC 922

Internet Standard Subnetting  
Procedure RFC 950

Bootstrap Protocol RFC 951

IP Datagrams over IEEE 802  
networks RFC 1042

Transmission of IP over  
Serial Lines RFC 1055

Routing Information  
Protocol (RIP) RFC 1058

Compressing TCP/IP  
Headers over Serial Lines RFC 1144

Structure of Management  
Information (MIBs) RFC 1155

Simple Network Management  
Protocol (SNMP) RFC 1157

Concise MIB Definitions  
(Concise-MIB) RFC 1212

Management Information  
Base-II (MIB-II) RFC 1213

Bridge-MIB (note: RFC 1493  
supercedes RFC 1286) RFC 1286

PPP Authentication:  
Password Authentication  
Protocol (PAP) and Challenge  
Handshake Authentication  
Protocol (CHAP) RFC 1335

Trivial File Transfer Protocol  
version 2 (TFTP) RFC 1350  
(supercedes RFC 783)

SNMP Administrative  
Model RFC 1351

SNMP over IPX RFC 1420

PPP Internetworking Packet  
Exchange Protocol RFC 1552

PPP LCP Extensions RFC 1570

PPP Bridging Control  
Protocol (BCP) RFC 1638

PPP IP Routing Control  
Protocol (IPCP) RFC 1332

PPP IPX Routing Control  
Protocol (IPXCP) RFC 1552

PPP over ISDN RFC 1618

Point-to-Point  
Protocol (PPP) RFC 1661

PPP Multilink Protocol  
(PPP MP) RFC 1717

### Ordering Information

**Hardware** (All units ship with cables)

#### AccessBuilder 4000

AccessBuilder 4000 Async  
Base System (Ethernet) 3C7513

AccessBuilder 4000 Async  
Base System (Token Ring) 3C7515

AccessBuilder 4000 ISDN  
Base System (Ethernet) 3C7517

AccessBuilder 4000 ISDN  
Base System (Token Ring) 3C7519

AccessBuilder 115.2Kbps  
Asynch Module (8 ports) 3C7522

AccessBuilder ISDN BRI  
S/T Module (4 ports) 3C7540

AccessBuilder ISDN BRI  
U Module (4 ports) 3C7541

#### SuperStack II AccessBuilder 2000 series

SuperStack II AccessBuilder 2204  
(Ethernet) 3C7204

SuperStack II AccessBuilder 2208  
(Ethernet) 3C7208

### OS/2 Client Software

with AccessBuilder 4000 and 5000

AccessBuilder OS/2 Client  
Eight-Port Pack 3C7570-8PK

AccessBuilder OS/2  
Client Sixteen-Port Pack 3C7570-16PK

### Security Software

AccessBuilder Security  
Package—Enterprise 3C7566

AccessBuilder Security  
Package—NetWare/  
Workgroup 3C7567

AccessBuilder Security  
Package—Microsoft  
Windows NT 3C7568

### Management Software

Transcend AccessBuilder Manager  
for UNIX HP OpenView 3C7557

### Documentation

AccessBuilder Documentation Set  
3C7551B

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