Full-featured DSL and Ethernet routers that provide economical broadband links to enterprise WANs and the Internet for remote offices

OVERVIEW

The 3Com® Router 3000 DSL and Ethernet Family provides remote offices with business-class broadband connections to an enterprise WAN or the internet. The routers include a four-port Ethernet LAN switch, an embedded firewall and authentication to protect data, a virtual private network (VPN) capability for additional security and quality of service (QoS) to support latency-sensitive applications such IP telephony.

Choose the router that best suits the enterprise's specific needs:

> Asynchronous DSL (ADSL) and ADSL2/ADSL2+ over public analog phone lines ("Plain Old Telephone Service", or POTS)

> ADSL over ISDN

> Symmetric high-speed DSL (G.SHDSL)

> 10 Mbps Ethernet

Select models also come with an ISDN backup port to help ensure uptime. Simple installation on desktop or wall mount, remote provisioning and ease of management make these routers an excellent value for enterprise IT groups and broadband service providers alike.

KEY BENEFITS

FULL FUNCTIONALITY IN AN ECONOMICAL PACKAGE

With the 3Com Router 3000 DSL and Ethernet Family, enterprises do not have to sacrifice functionality or connectivity options for an economical remote-office routing solution. The routers deliver a full set of routing features—including IP routing, Open Shortest Path First (OSPF), RIP v1/2 and BGP-4 multicast and virtual LAN (VLAN) capability—and come with a full complement of memory. The high-speed G.SHDSL routers are especially advantageous for enterprises running mission-critical applications such as IP telephony and database synchronization.

The DSL routers interoperate with a broad range of international standard DSL equipment (depending on model): ITU-T 992.1 (G.DMT, Annex A and B), ITU-T G991.2, ITU-T 992.2 (G.Lite), ITU G.992.3 (ADSL2), ITU G.992.5 (ADSL2+), ITU-T 994.1 (G.handshake) and ANSI TI.413 Issue 2 specifications. The G.SHDSL models accommodate symmetric DSL speeds up to 2.3 Mbps over single-pair-wires, or 4.6 Mbps over two-pair wires.

3Com Router 3030

KEY BENEFITS
(CONTINUED)

ADVANCED SECURITY AND CONTROL FEATURES

The 3Com Router 3000 DSL and Ethernet Family helps secure and safe-guard sensitive information against unauthorized access. Security and control features include AAA, RADIUS authentication, a stateful packet inspection firewall, denial-of-service (DoS) blocking and Access Control Lists (ACLs). L2TP and IPSec VPNs with 3DES and AES encryption provide additional security over the WAN.

The embedded firewall includes support for ACLs, plus generic routing encapsulation (GRE), network address translation (NAT), NAT traversal and application layer gateways. Business applications are able to pass easily through the firewall and across the VPN.

VOICE, DATA AND VIDEO CONVERGENCE SUPPORT

The routers deliver advanced QoS, including DiffServ support, for effective traffic management on networks that run converged voice, data and video applications. Utilizing IP differentiated services for applications and ATM QoS for traffic and physical layer prioritization, the routers are equipped to handle the most demanding multimedia networking, helping to assure the level of service required for delay-sensitive traffic and continuous business operation. The routers support both IEEE 802.1p prioritization and IEEE 802.1Q VLANs.

RESILIENCE AND REDUNDANCY FOR MAXIMUM UPTIME

The routers are designed for high resiliency to meet stringent enterprise uptime standards. To ensure continuous operation, they support ISDN backup to primary WAN ports (models 3031, 3034, 3035 and 3041), Virtual Router Redundancy Protocol (VRRP) and Dial Control Center.

MANAGEMENT ACROSS THE ENTERPRISE

The routers can be managed using the optional 3Com Management Suite, or using 3Com Router Manager, which is included with the optional 3Com Network Director software. These graphical applications provide sophisticated remote diagnostic and management capabilities, including bulk updating of remote router code and configuration backup, auto-trap setup and monitoring, router system status and historical reporting. An intuitive, easy-to-use CLI functionality can be accessed directly, or remotely via Telnet, Secure Shell or Rlogin. Other SNMP management applications may also be used. The Info Center diagnostic tool, available through the CLI interface, helps spot problems and reports them for quick remedial action.

ADVANTAGES FOR SERVICE PROVIDERS

The 3Com Router 3000 DSL and Ethernet Family offers service providers simplicity and ease of use that lowers total cost of ownership and expedites service delivery. QoS support gives customers the traffic control needed for convergent applications, fulfilling service level agreements. Remote management provides extensive administrative and troubleshooting capabilities. And the routers equipped with ISDN backup provide resiliency for customers requiring fail-safe connections.

WORLD-CLASS SERVICE, SUPPORT AND TRAINING

3Com routers are backed by 3Com and its authorized partners. Professional customer service organizations offer assessment, installation, management and maintenance support for network infrastructures. Skilled personnel with experience in a variety of network environments can assist 3Com customers through all phases of network planning, implementation, troubleshooting and product training.

FEATURE HIGHLIGHTS

Provides a four-port 10/100 Ethernet LAN switch and a choice of ADSL/ADSL2/ADSL2+ over analog POTS, ADSL over ISDN, or G.SHDSL to accommodate diverse DSL service offerings worldwide; Router 3036 has an Ethernet WAN port for use where an internet connection is already available

Offers standards-based routing that is fully compliant with a variety of routing protocols

Minimizes support requirements at branch offices and remote sites

Provides available ISDN BRI S/T backup to ensure network continuity

Safeguards data and resources with integrated firewall, VPN and encryption

Gives service providers a manageable, easy-to-provision solution

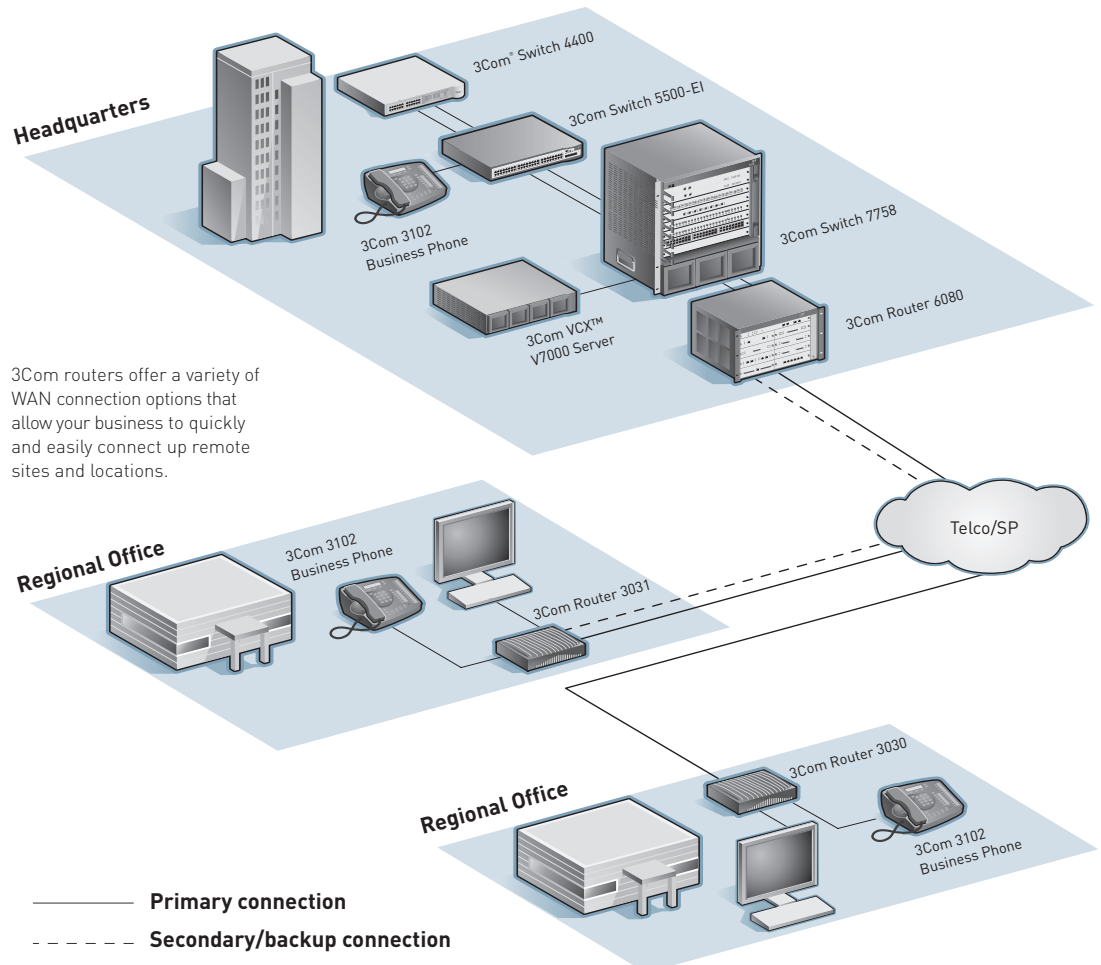Installs conveniently on a desktop or wall

Supports centralized management that delivers a full set of diagnostic tools and control features

Provides QoS and other traffic management to protect the performance of converged applications such as voice over IP and video over IP

Backed by top-flight service, support and training from 3Com and 3Com authorized partners

AN END-TO-END 3COM SOLUTION

The 3Com Router 3000 DSL and Ethernet Family is an integral part of 3Com's broad portfolio of secure converged network solutions for enterprises and small businesses: 3Com TippingPoint™ Intrusion Detection Systems; 3Com Router 5000 and Router 6000 families; 3Com Switch 8800, Switch 7700 and Switch 5500 families; the 3Com Convergence Application Suite and the 3Com VCX™ and NBX® IP telephony platforms; and 3Com OfficeConnect® routers, switches and firewalls for small offices.

3Com routers offer a variety of WAN connection options that allow your business to quickly and easily connect up remote sites and locations.

Headquarters

3Com® Switch 4400

3Com Switch 5500-EI

3Com 3102 Business Phone

3Com Switch 7758

3Com VCX™ V7000 Server

3Com Router 6080

Telco/SP

Regional Office

3Com 3102 Business Phone

3Com Router 3031

Regional Office

3Com Router 3030

3Com 3102 Business Phone

————— Primary connection

- - - - - Secondary/backup connection

SPECIFICATIONS

All information in this section is relevant to all members of the 3Com Router 3000 DSL and Ethernet Family, unless stated otherwise.

PORTS
Router 3030:
One RJ-11 ADSL (over POTS)
Router 3031:
One RJ-11 ADSL (over POTS)
One RJ-45 ISDN BRI S/T
Router 3032:
One RJ-11 ADSL (over ISDN)
Router 3033:
One RJ-45 G.SHDSL
Router 3034:
One RJ-45 G.SHDSL
One RJ-45 ISDN BRI S/T
Router 3035:
One RJ-11 ADSL (over ISDN)
One RJ-45 ISDN BRI S/T
Router 3036:
One RJ-45 10 Mbps Ethernet
Router 3040:
One RJ-11 ADSL/ADSL2/ADSL2+ (over POTS)
Router 3041:
One RJ-11 ADSL/ADSL2/ADSL2+ (over POTS)
One RJ-45 ISDN BRI S/T
All models:
Four 10BASE-T/100BASE-TX
One console

MEMORY
SDRAM: 64 MB
Flash: 8 MB (16 MB, models 3033, 3034, 3040 and 3041)

LOCAL INTERFACE
4-port 10BASE-T/100BASE-TX switch
Auto-MDI/MDX crossover
Console RS-232c

WAN INTERFACE
RJ-11 ADSL/ADSL2/ADSL2+, RJ-45 G.SHDSL, RJ-45 10 Mbps Ethernet and/or RJ-45 ISDN BRI S/T, depending on model
Full Rate ADSL: ANSI T1.413, Issue 2, ITU G.992.1 (G.dmt)
Sub Rate ADSL: ITU G.992.2 (G.lite)
ITU G.992.3 (ADSL2)
ITU G.992.5 (ADSL2+)

WAN SERVICE SUPPORT
RFC-2516: PPP over Ethernet (PPPoE)
RFC-2364: PPP over ATM (PPPoA)

ATM ATTRIBUTES
ATM service class: UBR, VBRnt, VBRrt, CBR
AAL type: AAL5
Virtual circuits: up to 32
Per VC queuing

PERFORMANCE CAPABILITY
ADSL: up to 8 Mbps downstream; up to 800 Kbps upstream
ADSL2: up to 12 Mbps downstream; up to 1 Mbps upstream
ADSL2+: up to 24 Mbps downstream; up to 1 Mbps upstream
G.SHDSL: Symmetric, 2.3 Mbps max. over 2 wires; 4.6 Mbps max. over 4 wires
ISDN BRI S/T: 2 x 64 Kbps
(ADSL, ADSL2/2+ and G.SHDSL speeds dependent on loop length and other environmental factors)

VPN CAPABILITY
100 VPN tunnels
DES, 3DES, AES encryption
L2TP, IPSec, GRE

SECURITY
Stateful packet inspection firewall
VPN: L2TP, GRE, IPSec
ACLs, NAT, AAA, RADIUS, PAP/CHAP, TACACS+

VOICE AND DATA SUPPORT
IP QoS: CAR, LAR, GTS, FIFO, PQ, WFQ, CBWFQ, RED, WRED, LLQ
Multicast routing protocols: IGMP, PIM-SM, PIM-DM
IEEE 802.1Q VLAN and inter-VLAN routing
Info Center diagnostics

RESILIENCE
Configuration rollback, auto-configuration
VRRP, Backup Center (Configuration/Port), Dial Control Center, multilinks

DIMENSIONS AND WEIGHT
Height: 4.5 cm (1.77 in)
Width: 30.0 cm (11.81 in)
Depth: 18.0 cm (7.1 in)
Weight: 1 kg (2.2 lb)

POWER SUPPLY
External power supply :
Input: 100-240VAC, 50/60Hz (rated voltage), 90-264VAC, 50/60Hz (maximum tolerance): 0.5A~1A
Output: 12VDC; 1A
Router:
12W maximum power consumption

ENVIRONMENTAL REQUIREMENTS
Operation temperature: 0°C to +40°C
Storage temperature: -40°C to +70°C
Humidity range: 5% to 90%

MTBF
Router 3030: 40 years (347,000 hours)
Router 3031: 39 years (338,000 hours)
Router 3032: 41 years (363,000 hours)
Router 3033: 40 years (352,000 hours)
Router 3034: 39 years (345,000 hours)
Router 3035: 41 years (362,000 hours)
Router 3036: 43 years (374,000 hours)
Router 3040: 44 years (362,000 hours)
Router 3041: 43 years (386,000 hours)

REGULATORY COMPLIANCE
CE Mark for European Union, Council Directive 99/5/EC

MANAGEMENT
3Com Enterprise Management Suite
3Com Network Director
3Com Router Manager
SNMP management

EMISSIONS / AGENCY APPROVALS
CISPR 22 Class B
EN55022 Class B
FCC Part 15, CFR 47 Class B
ICES-003 Class B
AS/NZS CISPR22 Class B
VCCI V-3 Class B

IMMUNITY
Product conforms to:
CISPR 24
EN 55024
EN 61000-3-2, EN 61000-3-3,
EN 61000-4-2, EN 61000-4-3,
EN 61000-4-4, EN 61000-4-5,
EN 61000-4-6, EN 61000-4-8 and
EN 61000-4-11

SAFETY AGENCY CERTIFICATIONS
UL 60950 3rd edition
IEC 60950
EN 60950
CAN/CSA-C22.2 #60950
AS/NZS60950: 2000

WARRANTY AND OTHER SERVICES
Limited Hardware Warranty for one year. Limited Software Warranty for 90 days. 90 days free telephone technical support.
Refer to www.3com.com/warranty for details.

ORDERING INFORMATION

PRODUCT DESCRIPTION	3COM SKU
3Com Router 3030	3C13630
1 x ADSL (over POTS), 4 x 10/100	
3Com Router 3031	3C13631
1 x ADSL (over POTS), 4 x 10/100, 1 x ISDN-S/T	
3Com Router 3032	3C13632
1 x ADSL (over ISDN), 4 x 10/100	
3Com Router 3033	3C13633A
1 x G.SHDSL, 4 x 10/100	
3Com Router 3034	3C13634A
1 x G.SHDSL, 4 x 10/100, 1 x ISDN-S/T	
3Com Router 3035	3C13635
1 x ADSL (over ISDN), 4 x 10/100, 1 x ISDN-S/T	

PRODUCT DESCRIPTION	3COM SKU
3Com Router 3036	3C13636
1 x 10 Mbps Ethernet, 4 x 10/100	
3Com Router 3040	3C13640
1 x ADSL/ADSL2/ADSL2+ (over POTS), 4 x 10/100	
3Com Router 3041	3C13641
1 x ADSL/ADSL2/ADSL2+ (over POTS), 4 x 10/100, 1 x ISDN-S/T	

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