

**Fast, full-featured routers designed to deliver optimum price/performance and connectivity at enterprise branches and remote sites**

## OVERVIEW

The 3Com® Router 3000 Serial Family gives enterprises a rich set of routing and traffic management features, together with an array of WAN interface options, at attractive price points. Designed especially for enterprise branch offices and remote locations, the 3Com Router 3000 serial models provide high processor speeds, advanced security, resilient operation and Tolly-tested Cisco interoperability. Select from five router models offering 10/100 Ethernet LAN connectivity and a broad choice of interfaces that can accommodate a variety of WAN topologies. Their desktop form factor, ease of installation and centralized manageability make these routers ideal for remote environments of any size where onsite technical support is limited.

## KEY BENEFITS

### BROAD ARRAY OF ROUTING FEATURES AND INTERFACES

With the 3Com Router 3000 Serial Family, enterprises do not have to sacrifice functionality or connectivity to get an economical remote-office routing solution. The routers deliver a full set of routing features and technologies, as well as a generous allotment of operating memory, eliminating hidden upgrade costs and maximizing return on investment. Comprehensive support for standards-based T1/E1, serial (sync/async) and ISDN WAN interfaces provides links to both public and private networks and integrates with an array of enterprise WAN topologies. The routers also complement 3Com's portfolio of enterprise and small office/home office routers and switches, as well as Cisco routing equipment.

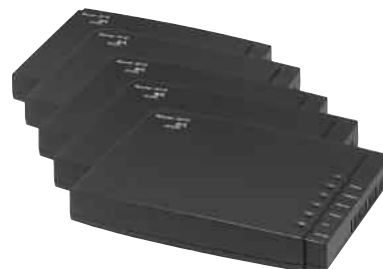
### ENTERPRISE-LEVEL PERFORMANCE

These economical routers feature a high-performance, 50 MHz processor and support for up to 2 Mbps over serial WAN ports. Operating memory of 64 MB comes standard.

### ADVANCED SECURITY AND CONTROL FEATURES

The 3Com Router 3000 Family helps secure and safeguard sensitive information against unauthorized access. Security and control features include AAA, RADIUS authentication, a stateful firewall with 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.



3Com Router 3000 Serial Family

## KEY BENEFITS

(CONTINUED)

### VOICE, DATA AND VIDEO CONVERGENCE SUPPORT

The router family delivers 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.Q 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 multi-links, asynchronous backup to primary WAN ports, Virtual Router Redundancy Protocol (VRRP) and Dial Control Center.

### MANAGEMENT ACROSS THE ENTERPRISE

3Com Router 3000 devices 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 Call Level Interface (CLI) function can be accessed directly, or remotely via Telnet, Secure Shell, or Rlogin. Other 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.

### CISCO INTEROPERABILITY FOR MULTIVENDOR WANS

3Com Router 3000 products are “Tolly Verified for Interoperability with Cisco.” This tested compatibility with Cisco routers reduces implementation and testing time for multivendor networks.

### WORLD-CLASS SERVICE, SUPPORT AND TRAINING

The 3Com Router 3000 Family is 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

### AN END-TO-END 3COM SOLUTION

The 3Com Router 3000 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, 7700 and 5500 families; the 3Com Convergence Application Suite and the 3Com VCX™ and NBX® IP telephony platforms; and 3Com OfficeConnect® routers and switches for small offices.

## FEATURE HIGHLIGHTS

Offers one 10/100 Ethernet LAN port and standards-based routing that is fully compliant with a variety of WAN interfaces, routing protocols and industry standards

Supports these WAN routing technologies: ISDN, frame relay, X.21, X.25, V.24, V.35, PPP, PPPoE, MP, SLIP, T1 and E1 (CSU/DSU), HDLC/SDLC, leased line, sync/async, Ethernet, IP, IPX, OSPF, RIP v1 and v2, BGP-4 and static routing

Minimizes support requirements at enterprise branch offices and remote sites

Addresses demanding remote connectivity, routing and security needs with a high-speed processor

Safeguards data and resources with integrated firewall, VPN and encryption

Ensures network operation with a range of resilience and redundancy features

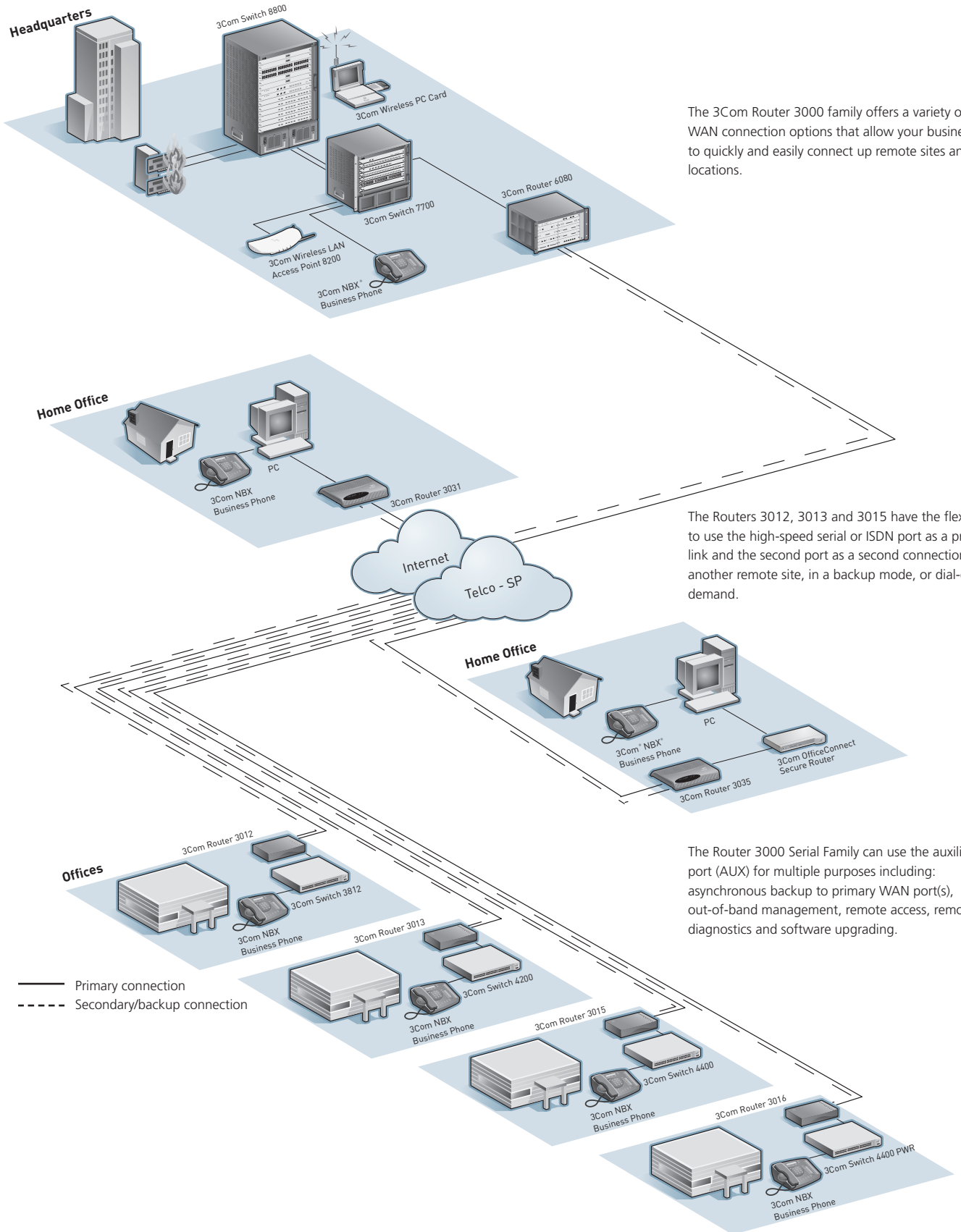
Provides a convenient desktop footprint

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

Interoperates with Cisco core routers and the full portfolio of 3Com products

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



The 3Com Router 3000 family offers a variety of WAN connection options that allow your business to quickly and easily connect up remote sites and locations.

The Routers 3012, 3013 and 3015 have the flexibility to use the high-speed serial or ISDN port as a primary link and the second port as a second connection to another remote site, in a backup mode, or dial-on-demand.

The Router 3000 Serial Family can use the auxiliary port (AUX) for multiple purposes including: asynchronous backup to primary WAN port(s), out-of-band management, remote access, remote diagnostics and software upgrading.

## SPECIFICATIONS

All information in this section is relevant to all members of the 3Com Router 3000 Serial family, unless otherwise stated.

### PORTS

**Router 3012:**  
One 10/100BASE-T  
Two serial (sync/async)

**Router 3013:**  
One 10/100BASE-T  
One ISDN BRI S/T  
One serial (sync/async)

**Router 3015:**  
One 10/100BASE-T  
One ISDN BRI U  
One serial (sync/async)

**Router 3016:**  
One 10/100BASE-T  
One T1/CT1/PRI with integrated CSU/DSU†

**Router 3018:**  
One 10/100BASE-T  
One E1/CE1/PRI with integrated CSU/DSU† (75- or 120-ohm, switch-selectable)

**All models:**  
One console  
One AUX serial

### MEMORY

SDRAM: 64 MB  
Flash: 32 MB

### LAN CONNECTIONS

10/100 Ethernet

### WAN ROUTING

ISDN, frame relay, X.21, X.24, X.25, PPP, PPPoE, MP, SLIP, T1, E1, HDLC/SDLC, leased line, sync/async, IP, IPX OSPF, RIP v1 and v2, PGP-4, Static Routing

### SECURITY

Stateful 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: 36.5 mm (1.5 in)  
Width: 251.0 mm (9.9 in)  
Depth: 187.0 mm (7.4 in)  
Weight: 0.85 kg (1.9 lb)

### POWER SUPPLY

90 to 240 VAC, 50/60 Hz; 40W

### ENVIRONMENTAL REQUIREMENTS

Operating temperature:  
0° to 40°C (32° to 104°F)  
Operating humidity:  
5% to 85% non-condensing

### REGULATORY COMPLIANCE

CE Mark for European Union

### MANAGEMENT

3Com Enterprise Management Suite  
3Com Network Director  
3Com Router Manager (included in 3Com Network Director)  
CLI  
SNMP v1, 2 and 3, Telnet, SSH and Info Center (diagnostic tool) support

### EMISSIONS / AGENCY APPROVALS

CISPR 22 Class A  
EN55022 1998  
FCC part 15 Class A  
ICES-003 Class A

### IMMUNITY

Product conforms to:  
EN 55024: 1998; EN 61000-3-2, 61000-3-3, 61000-4-2, 61000-4-3, 61000-4-4, 61000-4-5, 61000-4-6 and 61000-4-11

### SAFETY AGENCY CERTIFICATIONS

UL 60950 3rd Edition  
CSA 22.2 #950 3rd Edition 1995  
EN 60950: 2000 + ZB & ZC deviations  
IEC 60950:1999 + corr. Feb. 2000

### WARRANTY AND OTHER SERVICES

One Year Limited Hardware Warranty.  
Limited Software Warranty for 90 days. 90 days of telephone technical support.  
Refer to [www.3com.com/warranty](http://www.3com.com/warranty) for details.

† T1 and E1 interfaces operate in full, fractional and channelized mode

## ORDERING INFORMATION

### PRODUCT DESCRIPTION

PRODUCT DESCRIPTION	3COM SKU
3Com Router 3012	3C13612
<i>3Com Router 3012, 1 x 10/100 port, 2 x serial port</i>	
3Com Router 3013	3C13613
<i>3Com Router 3013, 1 x 10/100 port, 1 x serial port, 1 x ISDN BRI S/T port</i>	
3Com Router 3015	3C13615
<i>3Com Router 3015, 1 x 10/100 port, 1 x serial port, 1 x ISDN BRI U port</i>	
3Com Router 3016	3C13616
<i>3Com Router 3016, 1 x 10/100 port, 1 x T1 (channelized, fractional and full) / ISDN Primary Rate port</i>	
3Com Router 3018	3C13618
<i>3Com Router 3018, 1 x 10/100 port, 1 x E1 (channelized, fractional and full) / ISDN Primary Rate port</i>	
<b>Cables (3 meters in length, unless otherwise noted)</b>	
3Com Router V.35 DTE Cable V.35 DTE Cable – DB-50M to V.35M	3C13670
3Com Router V.35 DCE Cable V.35 DCE Cable – DB-50M to V.35F	3C13671
3Com Router V.24 DTE Cable V.24 DTE Cable – DB-50M to V.24M	3C13672
3Com Router V.24 DCE Cable V.24 DCE Cable – DB-50M to V.24F	3C13673
3Com Router E1 Cable, BNC, 20m E1 – 75 ohm/2.55 mm-DB-15M to 2 x BNC 75 ohm; 20 meters	3C13675

### PRODUCT DESCRIPTION

PRODUCT DESCRIPTION	3COM SKU
3Com Router E1 Cable, RJ-45, 20m E1 – 120 ohm/0.32 mm-DB-15M to RJ-45; 20 meters	3C13676
3Com Router E1 RJ45 Cable - 3M G.703 – 120 ohm/0.32 mm-DB-15M to RJ-45	3C13677
3Com Router T1 Cable, RJ45, 3m T1 – RJ-45 to RJ-45	3C13674
3Com Router X.21 DTE Cable X.21 DTE Cable – DB-50M to X.21M	3C13678
3Com Router X.21 DCE Cable X.21 DCE Cable – DB-50M to X.21F	3C13679

### Service

3Com recommends a 3Com Express<sup>SM</sup> service contract for the Router 3000 family, which provides telephone technical support, hardware replacement and software upgrades to ensure that any technical issues are resolved quickly and efficiently. Express support is available with 8x5 or 24x7 response time options for telephone support. Choose next-business-day or 4-hour response for advance hardware replacement. Availability may vary by geographic location.

Order 3Com Router Installation service to ensure a successful result, faster deployment and minimize the risk of disruption to your business.

Visit [www.3com.com](http://www.3com.com) for more information about 3Com secure converged network solutions.

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