

# 3Com® OfficeConnect®

## Remote 840 SDSL Router

*Lightning-fast connection in the home or office*



### Key Benefits

#### Low-cost high-speed transmission.

"Always on" Internet or remote LAN access at speeds comparable to T1 connections.

#### Easy installation.

Uses existing copper phone wires. Requires no special line installation or POTS splitter.

#### Symmetric transmission.

SDSL technology provides up to 1.568 Mbps both downstream and upstream.

#### Dependable interoperability.

Will not interfere with existing T1 lines; can coexist with many different voice and data services.

#### Proven reliability.

3Com has provided robust, dependable business solutions for more than 20 years.

#### Part of the award-winning OfficeConnect® family.

As business requirements change, add other functions such as high-speed networking, Internet access, remote access, or print-sharing capabilities.



The 3Com® OfficeConnect® Remote 840 SDSL Router provides a high-performance solution for small business connectivity, while offering a competitive alternative to cable modems with bandwidth comparable to a T1 line at a much lower price. Using Symmetrical Digital Subscriber Line (SDSL) technology you will remain "always connected," enjoying the same data rates for uploads as downloads.

Ideal for applications requiring high bandwidth in both directions, the router enables businesses to offer lightning-fast Internet connections while providing remote users such as telecommuters and branch offices with the ability to connect efficiently to the central site. Moreover, the router can be used for a variety of applications, including video conferencing, remote training, Web hosting, e-commerce, and other multimedia applications.

Because the OfficeConnect Remote 840 SDSL Router connects easily to

existing copper phone lines and does not require a POTS splitter to separate voice and data streams, on-site installation by a service provider is not required. Easy configuration and monitoring can be accomplished by using a standard Web browser. A Command Line Interface also comes standard.

In addition, the router provides exciting new capabilities for small businesses, remote offices, and anyone requiring a high-bandwidth connection. And since the router is part of the award-winning OfficeConnect family, you can easily add new functions as business requirements change.

Moreover, 3Com's partnerships with leading DSLAM and DLC vendors ensure that the OfficeConnect Remote 840 SDSL Router will deliver reliable connectivity in the future. 3Com has been providing dependable, effective solutions for the past 20 years, so you can count on us to keep you at the forefront of technology now and into the next millennium.

# External/SDSL

## Key Features

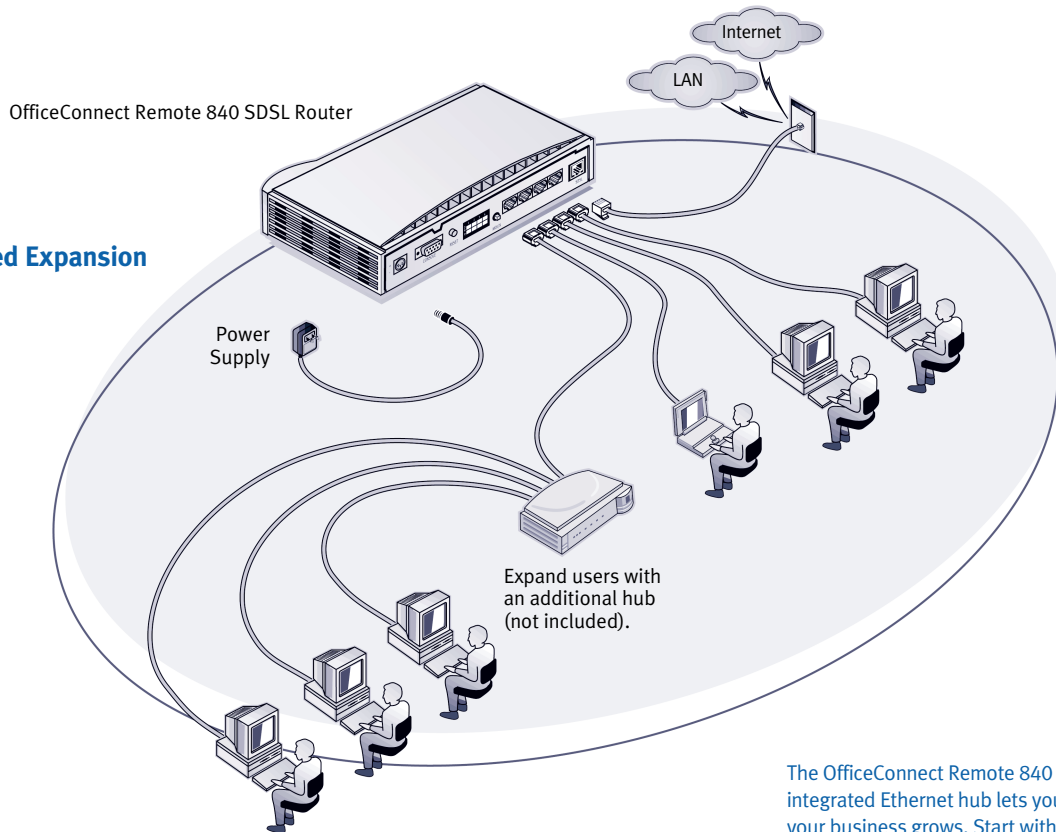
- Full routing (IP/IPX) and bridging capabilities
- MAC Encapsulation Routing supports a wide variety of applications
- Integrated four-port 10BASE-T hub allows multiple users to share the same SDSL and Internet connections
- Standard browser-based GUI for configuration, management, and monitoring
- MDI/X switch eliminates the need for special cables to connect additional OfficeConnect hubs or switches
- Built-in interoperability with leading DSLAM vendor equipment
- Symmetric data rates of up to 1.568 Mbps

- Bridged firewall simultaneously bridges over any of the 16 available virtual circuits while routing over remaining virtual circuits
- Instant Update verifies that the router is using the most current software
- Network Address Translation (NAT) and sophisticated packet filtering offer limited firewall protection
- User-selectable default modes for easy setup and configuration
- Support for numbered and unnumbered IP interfaces
- Dynamic Host Configuration Protocol (DHCP) server, DHCP relay agent, and Domain Named Server (DNS) relay provides flexible and automatic dynamic IP address assignment
- All cables included
- 5-year limited warranty

## Package Contents

- OfficeConnect Remote 840 SDSL Router
- Power adapter
- Installation guide
- Telecommuting/Remote Office Access Configuration Planning Form
- Internet Configuration Planning Form
- CD-ROM containing user documentation and installation software
- RJ-45 to RJ-45 Ethernet cable
- 10BASE-T (8 ft)
- RJ-11 to RJ-11 phone cable (7 ft)
- DB-9 to DB-9 console cable
- Rubber feet
- Stacking clip

## Unlimited Expansion



The OfficeConnect Remote 840 Router's integrated Ethernet hub lets you expand as your business grows. Start with four workstations connected directly to the router and add additional OfficeConnect hubs or switches to accommodate your needs.

## 3Com® OfficeConnect® Family

The 3Com® OfficeConnect® family is an integrated networking system, allowing small businesses to share computer resources, access the Internet, and connect remote locations or users.

The products in this modular range are designed to work together and now include the highly graphical, intuitive OfficeConnect Network Assistant CD-ROM, which provides a step-by-step guide to system-level network setup and ongoing network operation. As business needs change it's simple to add new users or advanced functions. And with improved limited lifetime and telephone support policies, the OfficeConnect product line provides a simple, reliable, and affordable solution for today's information sharing needs.



## Specifications

### System Requirements

Workstation with Ethernet 10BASE-T interface  
DOS, Windows, UNIX, or operating system supporting Ethernet connection with IP stack  
SDSL service from your local telephone company or broadband service provider (services currently available only in selected areas and may be limited)

### Standards Compliance

FCC Part 15 Class B  
IC approved to ICES-003  
UL Listed  
CUL Listed

### Routing

TCP/IP with RIP1 (RFC 1058) and RIP2 (RFC 1724, 2453)  
Static routing (LAN/WAN)  
Novell IPX with RIP and SAP  
Routing filtering

### Bridging

Transparent Bridging (IEEE 802.1d) including Spanning Tree Algorithm  
Bridge filtering

### Packet Filtering

Uniquely configurable on each remote site profile and each interface (LAN/WAN)  
Source and destination address filtering—MAC, IP, and IPX addresses  
IP port filtering  
IP and IPX RIP filtering  
IP protocol type filtering  
User-definable generic filtering based on offset, mask, or value

### Setup, Management, and Monitoring

Supports standard Web browsers (Internet Explorer included)  
Robust Command Line Interface (CLI)  
Simple Network Management Protocol (SNMP)  
Telnet and serial console port access  
Firmware upgrade via HTML, FTP, or direct connect  
Instant Update utility obtains latest firmware  
Network ping  
DHCP  
DNS

### Frame Relay

RFC 1490 - IP, IPX, and MAC encapsulated routing

### ATM

RFC 1483 - Multiprotocol Encapsulation over ATM  
RFC 2364 - PPP over ATM  
OAM F4/F5 - Loopback and ADI/RDI  
AAL5  
UNI 3.1  
Up to 16 virtual circuits  
UBR traffic shaping

### Connections

4 RJ-45 Ethernet LAN ports (10BASE-T)  
1 RJ-11 SDSL port  
1 DB-9 console port  
1 DC power supply

### SDSL Modem Specifications

2B1Q line coding  
Data rates: 160 Kbps to 1568 Kbps

### Dimensions

Width: 22 cm (8.7 in)  
Height: 3.6 cm (1.4 in)  
Depth: 13.8 cm (5.4 in)  
Weight: 0.6 g (1.3 lb)

### Processor and RAM

50 Mhz Motorola MPC850  
4 MB Flash and 8 MB DRAM

### Environmental

Operating temperature: 0° to 40°C (32° to 104°F)  
Nonoperating temperature: -35° to 70°C (-37° to 158°F)  
Operating humidity: 0% to 95% noncondensing  
Storage humidity: 0% to 100% noncondensing

### Power

Input voltage: 100 to 240 VAC  
Input current: 47 to 63 Hz, 0.8A  
Output current: +15 VDC, 1.2A

### Warranty

Five-year limited warranty on parts and labor, factory repair, or replacement



Visit <http://www.3com.com/products/yr2000.htm>

### Ordering Information

**OfficeConnect Remote 840 SDSL Router†** 3C840

### OfficeConnect Product Information

For more information please refer to the following Web site or the publications listed below:

[www.3com.com/smallbusiness/products/products\\_family.html](http://www.3com.com/smallbusiness/products/products_family.html)

**OfficeConnect Fast Ethernet Network Interface Card data sheet** 400440-003

**OfficeConnect 10/100 LAN PC Card data sheet** 400509-001

**OfficeConnect Hubs and Switches data sheet** 400317-009

**3Com/HP JetDirect 300X OfficeConnect Print Server data sheet** 400427-002

**OfficeConnect ISDN LAN Modem data sheet** 400396-005

**OfficeConnect 56K\* LAN Modem† data sheet** 400397-003

**V.90 OfficeConnect 56K\* Business Modem data sheet** 400473-001

**OfficeConnect Fast Ethernet PCI Networking Kit data sheet** 400412-004

**OfficeConnect Remote 511 and 531 Access Routers data sheet** 400318-003

**3Com/HP JetDirect 170X OfficeConnect External Print Server data sheet** 400484-002

**OfficeConnect Internet Firewalls data sheet** 400526-001

\*Capable of receiving downloads at up to 56 Kbps and sending at up to 31.2 Kbps. Actual download speeds you experience may be lower due to varying line conditions. Maximum download speeds in Canada and the U.S. are limited to 53 Kbps, due to regulatory limits on power output. Requires compatible analog phone line and server equipment. See [www.3com.com/56k/](http://www.3com.com/56k/) for details.

†Available in North America only.

3Com warrants that this product will continue performing properly with regard to date-sensitive data after January 1, 2000, provided that all other products used in connection or combination with this product, including hardware, software, and firmware, accurately exchange date-sensitive data with this product. If this product does not perform properly with regard to date-sensitive data after January 1, 2000, the customer may notify 3Com before April 1, 2000, or 90 days after purchase of this product from 3Com or its authorized reseller, whichever is later. 3Com shall, at its option and expense, provide a software update, product repair, or product replacement, which will provide the proper performance. Or, if none of the foregoing is feasible, refund to customer the purchase price paid for such product. Any software update, product replacement, or product repair will carry a Year 2000 limited warranty for 90 days after purchase or until April 1, 2000, whichever is later. This warranty excludes third-party software included with this product. See [www.3com.com/products/yr2000.html](http://www.3com.com/products/yr2000.html) for more information.



More connected.™

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Printed in U.S.A. on recycled paper

400508-003 8/00