OfficeConnect Hubs and Switches

Networks designed for the small business

Specifically designed for small businesses and offices, OfficeConnect hubs and switches provide cost-conscious businesses with the foundation of an integrated system of small-office networking. By installing a local area network (LAN), users can work more effectively with file and print sharing and reduce costs by sharing expensive resources such as printers.

3Com OfficeConnect hubs provide connectivity for every business need. They are available in a variety of port densities, from 4 to 16 ports, and stack up to four units high. For the value-conscious user, standard Ethernet hubs are ideal, while Fast Ethernet hubs and switches provide additional speed for high-volume transactions. The OfficeConnect range features the latest 10/100 Mbps autosensing technology, allowing users to migrate to higher speeds when needed.

In addition to the simple LEDs, compact design, and a variety of other great features, OfficeConnect hubs now ship with the OfficeConnect Network Assistant CD-ROM, a graphical step-by-step guide to setting up and using a peer-to-peer network.

3Com OfficeConnect hubs and switches are a core part of the OfficeConnect family, an integrated system of products designed to take the worry out of building and running a network for a small business. In addition to hubs and switches, the OfficeConnect family includes resource sharing, remote access, and Internet connectivity products.

Key Benefits

Easy to install and use. Offers plug-and-play simplicity. All hubs ship with OfficeConnect Network Assistant CD-ROM, a graphical set-by-step network setup, troubleshooting, and expansion guide.

Simple troubleshooting. Diagnostic and Alert LEDs on the front panel and OfficeConnect Network Assistant CD-ROM provide excellent support.

Compact design. Unique form factor and small size saves valuable space in small offices.

Year 2000 compliant. All OfficeConnect hubs and switches are ready for the year 2000 conversion.

Lifetime limited warranty. Guarantees OfficeConnect hubs and switches, including the power adapter, for life.

Part of the award-winning OfficeConnect family. As your business grows, you can add OfficeConnect Internet connectivity, remote access, and print serving capabilities.
OfficeConnect Hubs and Switches

3Com leverages the enterprise network expertise for the design of the OfficeConnect family of hubs and switches. Compact, easy to install, and affordable, they come with a range of features and functionalities designed to meet the needs of small offices and growing businesses.

**Ideal for any small network.**
OfficeConnect hubs and switches come with a full range of port densities, media interface options, and speeds to suit the needs of small-office networks.

**Unique ease-of-use features.**
OfficeConnect Network Assistant, a highly graphical CD-ROM, is now shipping with all OfficeConnect hubs and networking kits to support system-level network setup, troubleshooting, and expansion.

**Simple troubleshooting.**
Full suite of diagnostic LEDs, including Alert LED, port status, and network utilization for at-a-glance monitoring plus system-level troubleshooting guide on OfficeConnect Network Assistant CD-ROM.

**Fully compatible with leading systems.**
OfficeConnect units support Novell NetWare, Microsoft Windows 95 and 98, Windows NT, and other leading software systems, giving the widest range of backward compatibility with existing office software.

**Compact, clippable, and expandable.**
Up to four units can be connected in a stack. MDI/M Dix switch allows connection to a workstation or another network device using off-the-shelf, straight-through cables.

**Lifetime limited warranty.**
Guarantees the hubs and switches for life, including the power supply.

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### OfficeConnect Network Assistant

The OfficeConnect Network Assistant CD-ROM, which ships with every OfficeConnect hub, is a highly graphical, step-by-step network setup, troubleshooting, and expansion guide. The Network Assistant guides even the novice user through every stage of owning a peer-to-peer network—including installation, maintenance, expansion, and troubleshooting. Plus, it’s localized in five languages.

Network Assistant has a clear graphical interface and features jargon-free language and intuitive icons. You’ll find a section on understanding networks, network installation, troubleshooting, and a glossary. You’ll agree that OfficeConnect Network Assistant is an invaluable resource for both end users and resellers alike.

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### OfficeConnect Family

The OfficeConnect family of products provides networking capabilities for small offices sharing computer information resources, high-speed access to the Internet, and connectivity for remote offices and users. As your business expands, additional OfficeConnect devices and functions can be added. All units are designed to work together and clip into a compact stack. Additional units include:

- **For the local area network:**
  - OfficeConnect Ethernet and Fast Ethernet hubs
  - OfficeConnect Fast Ethernet switches
  - HP JetDirect OfficeConnect print servers

- **For shared Internet connectivity and remote access:**
  - OfficeConnect LAN modems
  - OfficeConnect Remotes
  - OfficeConnect NETBuilder® products

**Benefits of the OfficeConnect family:**
- Market-leading solution
- Designed for small businesses
- Common look and feel interface
- Broadest solution on the market
- Simple installation and troubleshooting
- Superior reliability
Technology Explained

Ethernet
Since its inception, Ethernet has become the most popular topology in local area networks. Based on the IEEE 802.3 standard, Ethernet has evolved over the years and now supports a range of media and significant enhancements that the original standard never did. The 10 M bps available bandwidth can be either shared across a number of users using hubs or dedicated to workstations using switched technology.

Fast Ethernet
Fast Ethernet was designed to deliver higher levels of performance to bandwidth-intensive resources such as servers and high-performance users. Fast Ethernet is based on the Ethernet standard yet runs at 10 times the speed (100 M bps). It is now one of the most popular high-speed technologies because of its cost effectiveness, stability, and compatibility with existing Ethernet LAN environments. Fast Ethernet switching allows dedicated performance between two devices.

10/100 Mbps Ethernet/Fast Ethernet
This combines both conventional 10BASE-T and high-speed 100BASE-TX support in one device. The unit automatically senses the speed of the connected end device (either 10 M bps or 100 M bps) and channels the data through at the appropriate speed. It is one of the most economical and flexible ways to add bandwidth immediately to congestion areas, while maintaining the option for migrations to higher bandwidth in the future.

OfficeConnect Hubs and Switches at a Glance

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OfficeConnect LED Indicators

- **Alert LED** (orange): Alerts you to excessive network use or an isolated (partitioned) 10BASE-T port and 100BASE-TX port.
- **Power LED** (green): Indicates that the power supply to the unit is present.
- **Packet LED** (OfficeConnect Hub TP4, 8/TPO, TP400 only) (green): Indicates if a packet is received on a port.
- **Collision LED** (yellow): Flashes each time a collision is detected on the network. Collisions are part of normal network operation.
- **Network Utilization LEDs** (green/yellow/orange): Indicate how much your network is being used.

As this front view of the OfficeConnect Hub 8/TPC illustrates, each OfficeConnect unit offers a variety of LED indicators, including an Alert LED to allow quick monitoring of hub and network activity. The Alert LED gives users immediate notification of problems, such as excessive network use, without requiring special technical knowledge.
OfficeConnect Ethernet Hubs

OfficeConnect Ethernet hubs provide the most economical way to network a small business. Choose from 4, 8, or 16 ports and a variety of connectivity options.

OfficeConnect Hub TP4 3C16704
A highly cost-effective, entry-level unmanaged hub, the OfficeConnect Hub TP4 provides four 10 M bps twisted-pair connections and represents the most economical OfficeConnect product for homes or small businesses.
- Four RJ-45 10BASE-T connections

OfficeConnect Hub TP4Combo 3C16703
Offering all the functionality of the OfficeConnect Hub TP4, the OfficeConnect Hub TP4Combo delivers the added functionality of one autosensing BNC/AUI port for connection to coaxial or alternative media network through the use of optional external transceiver modules.
- Four RJ-45 10BASE-T connections
- BNC and AUI ports (one active at a time)
- Bandwidth Utilization Meter monitors traffic use on the network

OfficeConnect Hub 8/TPC 3C16701
Ideal for growing businesses that may need to expand their existing coaxial network, this hub is configured with eight shielded twisted-pair ports and includes enhanced diagnostic capabilities.
- Eight RJ-45 10BASE-T connections
- BNC 10BASE2 coaxial port for attaching other units (up to 30 hubs can be daisy-chained on a single segment)
- Bandwidth Utilization Meter monitors traffic use on the network

OfficeConnect Hub 8/TPO 3C16700
An entry-level hub that provides eight twisted-pair connections, this model offers a cost-effective solution for small businesses wanting a simple, yet powerful network.
- Eight RJ-45 10BASE-T connections

OfficeConnect Hub TP16C 3C16702
Ideal for small offices that need expanded network capacity without exceeding sensitive budgets, the OfficeConnect Hub TP16C provides 16 RJ-45 ports and one BNC connector for connectivity to coaxial network backbones.
- Sixteen RJ-45 10BASE-T connections
- BNC 10BASE2 coaxial port for attaching other units (up to 30 hubs can be daisy-chained on a single segment)
- Bandwidth Utilization Meter monitors traffic use on the network

OfficeConnect Hub 8/TPM 3C16710
For networks requiring more extensive management as well as future expandability, this hub offers powerful SNMP management functions, including full RM ON support via an embedded SNMP SmartAgent® intelligent agent. It's shipped with 3Com Transcend® Quick Configuration Manager software for simplified installation.
- Eight RJ-45 10BASE-T connections
- Concise installation procedure
- Powerful SNMP-based management functions, including full RM ON support (nine groups)
- Telnet support
- Full integration with 3Com Transcend management applications
- BNC 10BASE2 coaxial port for attaching other units (up to 30 hubs can be daisy-chained on a single segment)
- Bandwidth Utilization Meter monitors traffic use on the network
- Advanced security features, including: Disconnect Unknown Device (DUD), which allows the hub to disable a port with an unknown device attached to it or report the incident to a management station; Need To Know (NTK), which prevents unauthorized devices from intercepting confidential communications
- Configurable Alert LED lights when a selected condition such as a preset level of collisions, coaxial port partition, log-in violation, or port security violation occurs
- Serial port for connecting a management terminal
- Remote Support Tool allows the hub to be configured to monitor the network and report conditions to a reseller or centralized management site via a modem link

*All OfficeConnect hubs now ship with OfficeConnect Network Assistant.
Fast Ethernet Hubs*

OfficeConnect Hub TP400 3C16723
The OfficeConnect Hub TP400 is the most cost-effective way to add Fast Ethernet to small-business environments, branch offices, or independent workgroups. Compact and reliable, this hub provides four unmanaged 100BASE-TX ports.
- Four 100BASE-TX ports
- Class II Fast Ethernet repeater lets you easily connect two Fast Ethernet hubs

OfficeConnect Hub TP800 3C16722
The OfficeConnect Hub TP800 provides eight unmanaged 100BASE-TX ports for high-bandwidth connectivity to shared Fast Ethernet networks or for direct 100 M bps desktop connectivity to power users.
- Eight 100BASE-TX ports
- Class II Fast Ethernet repeater lets you easily connect two Fast Ethernet hubs

OfficeConnect Hub TP1200 3C16721
The OfficeConnect Hub TP1200 provides 12 100BASE-TX ports for allowing unmanaged Fast Ethernet connectivity for up to 12 users while enabling you to connect more users if needed.
- Twelve 100BASE-TX ports
- Class II Fast Ethernet repeater lets you easily connect two Fast Ethernet hubs

OfficeConnect Dual Speed Hub 8 3C16750
The OfficeConnect Dual Speed Hub 8 lets you connect both Ethernet and Fast Ethernet workstations and devices. Ideal for those wishing to extend an existing Ethernet network into Fast Ethernet, the Dual Speed Hub 8 provides a cost-effective migration path.
- Eight autosensing 10BASE-T or 100BASE-TX shared ports
- Built-in switch seamlessly connects 10 M bps and 100 M bps users
- Class II Fast Ethernet repeater lets you easily connect two Fast Ethernet hubs

OfficeConnect Dual Speed Hub 16 3C16751
The OfficeConnect Dual Speed Hub 16 provides 16 10/100 autosensing ports allowing you to mix and match Ethernet and Fast Ethernet devices. Ideal for those wishing to extend an existing Ethernet network into Fast Ethernet, the Dual Speed Hub 16 provides a cost-effective migration path.
- Sixteen autosensing 10BASE-T or 100BASE-TX shared ports
- Built-in switch seamlessly connects 10 M bps and 100 M bps users
- Class II Fast Ethernet repeater lets you easily connect two Fast Ethernet hubs

*All OfficeConnect hubs now ship with OfficeConnect Network Assistant.

Fast Ethernet Hubs (100 Mbps) Configuration Rules
All OfficeConnect Fast Ethernet hubs are Class II. You can directly connect two Class II Fast Ethernet hubs (Class I hubs cannot be directly connected to other Fast Ethernet hubs). The total length of cable (A+B+C below) between two workstations and a nonrepeater piece of equipment (such as a switch) must not exceed 205 m (672 ft). Each cable (A, B, or C) must not exceed 100 m (328 ft).

3Com recommends that Category 5 cables be used and that the cable (B) between the Fast Ethernet hubs is not longer than 5 m (16.4 ft). This allows the maximum hub-to-workstation cable length (A or C) of 100 m (328 ft) to be used, as shown in the example.

These rules do not apply to Fast Ethernet switches. You can connect as many OfficeConnect switches together as your business requires.
Fast Ethernet Switches

OfficeConnect Switches
The OfficeConnect family of Fast Ethernet switches is designed for small businesses that want the highest network performance possible to exchange large data files and images and access real-time information.

OfficeConnect Switch 400 3C16733
The OfficeConnect Switch 400 lets users migrate effortlessly between 10 M bps and 100 M bps. With its four autosensing 10/100 ports, the OfficeConnect Switch 400 allows for aggregation of Fast Ethernet hubs, as well as delivering the performance benefits of Fast Ethernet.
- Four 10/100BASE-TX autosensing ports
- Autonegotiating, full and half duplex on all ports, doubling the throughput when ports are connected to other autonegotiating, full-duplex devices
- Full wire-rate switching eliminates bottlenecks that restrict data flow and delay traffic

OfficeConnect Switch 800 3C16734
The OfficeConnect Switch 800 allows up to eight flexible connections at either 10 or 100 M bps, making it ideal for connecting servers or multiple hubs in small businesses that use bandwidth-intensive applications such as databases, accounting software, or multimedia.
- Eight 10/100BASE-TX autosensing ports
- Autonegotiating, full and half duplex on every port
- Full wire-rate switching on all ports using store-and-forward switching technology
- 8,000 MAC addresses
- Designed for small businesses

OfficeConnect Switch 1600 3C16735
The OfficeConnect Switch 1600 provides connections for up to 16 PCs, servers, or other networked devices. The switch is easy to install; and because there is no complex management software, it can be up and running in minutes. The OfficeConnect Switch 1600 is ideal for growing businesses with networked applications such as databases, accounting software, or multimedia.
- Sixteen 10/100BASE-TX autosensing ports
- Autonegotiating, full and half duplex on every port
- Full wire-rate switching on all ports using store-and-forward switching technology
- 8,000 MAC addresses
- Designed for small businesses

Small Business/Home Networking Kits

OfficeConnect Networking Kit (4-Port) 3C1509
Designed for small businesses and small offices that need reliable, affordable networking solutions, the OfficeConnect Networking Kit (4-port) is ideal for connecting two PCs with shared peripherals. One kit contains all the hardware necessary to connect two personal computers: two EtherLink III ISA NICs, one OfficeConnect Hub TP4, a power adapter, cabling, user guide, and complete installation software.

Available in multilingual versions:
- French 3C1509-FR
- German 3C1509-DE
- Italian 3C1509-IT
- Spanish 3C1509-SP
- UK English 3C1509-UKN
- Mainland Europe (with UK English) 3C1509-EU

OfficeConnect Networking Kit (8-Port) 3C50902B
The OfficeConnect Networking Kit (8-port) is a complete network solution for small businesses. One kit contains all the hardware necessary to connect three personal computers: three EtherLink III ISA NICs, one OfficeConnect Hub 8/TPC, a power adapter, cabling, user guide, and complete installation software.

Both kits offer:
- A hub that supports up to four network devices (3C1509) or eight network devices (3C50902B). More users can be accommodated by adding another hub.
- Quick installation with an easy-to-follow user guide that includes step-by-step instructions
- Compatibility with leading operating systems, including Windows 95, Windows NT, Novell NetWare, and Artisoft LANtastic
- Lifetime limited warranty
- Unlimited free technical support through 1-800-NET-3COM, 24-hour BBS, FaxBack, and the 3Com Web site (http://www.3com.com)
OfficeConnect Hubs

All OfficeConnect hubs come with a user guide, power adapter, stacking clips, and rubber feet.

**OfficeConnect Hub TP4 (10BASE-T Hub)**
- Connectors: Four RJ-45 ports for 10BASE-T twisted-pair
- Dimensions: Width: 220 mm (8.7 in); Height: 35.8 mm (1.4 in); Depth: 135.4 mm (5.3 in);
- Weight: 500 g (1.1 lb)
- Power: 11 VA
- Environmental: EN 60068 (IEC 68)

**OfficeConnect Hub TP4combo (10BASE-T Hub)**
- Connectors: Four RJ-45 ports for 10BASE-T twisted-pair; one BNC port; one AUI port
- Dimensions: Width: 220 mm (8.7 in); Height: 35.8 mm (1.4 in); Depth: 135.4 mm (5.3 in);
- Weight: 500 g (1.1 lb)
- Power: 11 VA
- Environmental: EN 60068 (IEC 68)

**OfficeConnect Hub 8/TPM (Managed 10BASE-T Hub)**
- Connectors: Eight RJ-45 ports for 10BASE-T twisted-pair (Port 8 is switchable, allowing connection of multiple units using 10BASE-T cable); one BNC port for 10BASE2 thin Ethernet (50 ohm); one DB-9 serial connection for management
- Dimensions: Width: 220 mm (8.7 in); Height: 54.6 mm (2.1 in); Depth: 185.4 mm (7.3 in) + 15.2 mm (0.6 in) for coaxial port; Weight: 960 g (2.1 lb)
- Power: 18 VA
- Environmental: EN 60068 (IEC 68)

**OfficeConnect Hub TP4000 (100BASE-TX Hub)**
- Connectors: Four RJ-45 ports for 10BASE-TX twisted-pair
- Dimensions: Width: 220 mm (8.7 in); Height: 35.8 mm (1.4 in); Depth: 135.4 mm (5.3 in);
- Weight: 500 g (1.1 lb)
- Power: 18 VA
- General
- 100BASE-TX cable must be data grade Category 5, either shielded or unshielded to ensure optimum performance.
- You should ensure that you have Fast Ethernet-compatible NICs installed in each PC.

**OfficeConnect Hub TP1200 (100BASE-TX Hub)**
- Connectors: Twelve RJ-45 ports for 10BASE-TX twisted-pair
- Dimensions: Width: 220 mm (8.7 in); Height: 54.6 mm (2.1 in); Depth: 185.4 mm (7.3 in);
- Weight: 960 g (2.1 lb)
- Power: 18 VA
- General
- 100BASE-TX cable must be data grade Category 5, either shielded or unshielded to ensure optimum performance.
- You should ensure that you have Fast Ethernet-compatible NICs installed in each PC.

**OfficeConnect Hub TP8000 (100BASE-TX Hub)**
- Connectors: Eight RJ-45 ports for 10BASE-TX twisted-pair
- Dimensions: Width: 220 mm (8.7 in); Height: 35.8 mm (1.4 in); Depth: 135.4 mm (5.3 in);
- Weight: 550 g (1.2 l)
- Power: 18 VA
- General
- 100BASE-TX cable must be data grade Category 5, either shielded or unshielded to ensure optimum performance.
- You should ensure that you have Fast Ethernet-compatible NICs installed in each PC.

**OfficeConnect Dual Speed Hub 8 (10/100BASE-TX Hub)**
- Connectors: Eight 10/100BASE-TX RJ-45 ports
- Dimensions: Width: 220 mm (8.7 in); Height: 54.6 mm (2.1 in);
- Depth: 185.4 mm (7.3 in);
- Weight: 960 g (2.1 lb)
- Power: 33 VA

**OfficeConnect Dual Speed Hub 16 (10/100BASE-TX Hub)**
- Connectors: Sixteen 10/100BASE-TX RJ-45 ports
- Dimensions: Width: 220 mm (8.7 in); Height: 54.6 mm (2.1 in);
- Depth: 185.4 mm (7.3 in);
- Weight: 1000 g (2.2 lb)
- Power: 53 VA

Specifications
OfficeConnect Hubs and Switches
Specifications

OfficeConnect Fast Ethernet Switches
All OfficeConnect switches come with a user guide, power adapter, stacking clips, and rubber feet.

OfficeConnect Switch 400 (Unmanaged 10/100BASE-TX autosensing ports)
Connectors: Four 10/100BASE-TX RJ-45 ports (MDI/MDIX selectable)
Dimensions: Width: 220 mm (8.7 in); Height: 54.6 mm (2.1 in); Depth: 185.4 mm (7.3 in); Weight: 960 g (2.1 lb)
Power: 20 VA

OfficeConnect Switch 800 (Unmanaged 10/100BASE-TX autosensing ports)
Connectors: Eight 10/100BASE-TX; RJ-45 ports (MDI/MDIX selectable on port 8)
Dimensions: Width: 220 mm (8.7 in); Height: 54.6 mm (2.1 in); Depth: 185.4 mm (7.3 in); Weight: 900 g (2 lb)
Power: 16.6 VA

OfficeConnect Switch 1600 (Unmanaged 10/100BASE-TX autosensing ports)
Connectors: Sixteen 10/100BASE-TX; RJ-45 ports (MDI/MDIX selectable on port 16)
Dimensions: Width: 220 mm (8.7 in); Height: 54.6 mm (2.1 in); Depth: 185.4 mm (7.3 in); Weight: 1000 g (2.2 lb)
Power: 34.5 VA

Standards
Functional: ISO 8802/3; IEEE 802.3; EMC; EN 55022 Class B*; EN 50082-1; FCC Part 15 Class B; ICES-003 Class B; CSA C108.8 Class B; VCCI Class B; AS/NZS 3548 Class B
*Screened (shielded) cables must be used to ensure compliance with these standards.
Environmental: EN 60068 (IEC 68)
Safety: UL 1950; EN 60950; CSA 22.2 #950; IEC 950

For more OfficeConnect product information, please refer to the following publications:
OfficeConnect Family sales brief 100260-006
HP JetDirect 170X OfficeConnect Print Server data sheet 400484-001
HP JetDirect 300X OfficeConnect Print Server data sheet 400396-003
OfficeConnect Network Assistant quick reference guide 100507-001
OfficeConnect ISDN LAN Modem data sheet 400397-002
OfficeConnect 56K LAN Modem data sheet* 400316-005
OfficeConnect Remote 511, 521, 531 data sheet 400318-002
*Available in North America only.

Warranty Summary
All OfficeConnect hubs and switches are covered by a lifetime warranty; the power adapter is also included in this warranty. To qualify for the warranty, you must submit a registration card. Advance hardware exchange is available during the first year; thereafter, return the hub to 3Com for repair. The lifetime warranty is not offered where restricted or prohibited by law.