



# CELLplex 7000 and SuperStack II Switch 2700 Ethernet/ATM Switches

*ATM switching for high-bandwidth environments*

3Com CELLplex 7000 and SuperStack II Switch 2700 switches streamline migration to ATM performance levels anywhere on the network. They provide robust, high-speed solutions for backbones, departmental LANs, server clusters, and power users in bandwidth-intensive workgroups.



3Com's CELLplex™ 7000 and SuperStack II Switch 2700 switches open up traffic bottlenecks, boost performance, and extend manageability, while maintaining the installed network infrastructure. In combination, they let you scale performance easily throughout the network.

CELLplex 7000 is an ATM switch that provides ATM connections as well as Ethernet interfaces linked in a non-blocking switching

architecture. Functioning as the key element in an ATM backbone, it helps scale and simplify network architecture by providing very high aggregate bandwidth.

SuperStack II Switch 2700 is a stackable Ethernet/ATM workgroup switch that employs 3Com's leading-edge ZipChip™ processor for full-wire-speed Ethernet connections to Ethernet LANs, and ATM connectivity to the backbone.

## *Key Benefits:*

- **Scalable networking.** The high-aggregate throughput of the ATM building/campus backbone delivers peak performance even in the growth segments of the network.
- **Virtual LANs.** ATM Forum standard LAN emulation and signaling let you establish logical workgroups independent of physical connections. These location-independent broadcast domains allow more flexible, cost-effective management.
- **State-of-the-art technology.** Sophisticated ATM switching engines and 3Com's ZipChip Ethernet/ATM processor provide full-rate, non-blocking switching for all ports, and high-throughput Ethernet/ATM integration. LAN emulation services and LAN emulation clients

are integrated into the CELLplex 7000 and SuperStack II Switch 2700, respectively.

- **Reliability.** CELLplex 7000 features such as redundant power, hot-swappable modules, backup switching fabrics, and automatic congestion management ensure performance and uptime.
- **A choice of ATM interfaces.** You can choose OC-3 155 Mbps SONET/SDH single-mode or multimode fiber, DS-3 BNC, or UTP Category 5 interfaces. Connections are interchangeable to the port level.
- **Modularity and manageability.** The modular design of the CELLplex 7000 allows you to configure additional ports as you need them. Both the CELLplex 7000 and SuperStack II Switch 2700 support 3Com's Transcend® and other SNMP management applications.





## ATM Switching Across the Network

3Com's CELLplex 7000 and SuperStack II Switch 2700 switches allow you to open up bandwidth-constrained network links for building and campus backbones, departments, workgroups, server farms, and individual workstations.

Using sophisticated switching engines and custom Asynchronous Transfer Mode (ATM) processors, these switches are optimized for end-to-end, high-speed cell switching—rather than simply adding ATM interfaces onto frame switching engines.

### Simplifying Complexity

Although 3Com's ATM switches provide high levels of network speed and performance, their greatest power lies in the aggregate bandwidth they deliver at the building/campus backbone.

If bandwidth constraints force the administrator to constantly reconfigure the network in order to distribute and redistribute bandwidth, the chief side-effect is complexity. 3Com's ATM solutions overcome this time-consuming and costly problem by boosting overall bandwidth in aggregate, and making the bandwidth scalable enough to fit specific performance requirements network-wide now and in the future.

This simplification at the backbone level is especially beneficial in networks experiencing rapid growth and change.

### Investment Protection

3Com ATM switches preserve the financial stake you have in your current network equipment by working seamlessly with existing hubs, switches, bridges, routers, and cabling. The switches allow you to upgrade portions of your network

to higher performance simply and cost-effectively without creating incompatibilities.

3Com switches are designed to gracefully adapt to growth and technological change. For example, the high-capacity backplanes in the CELLplex 7000 switch will allow you to increase port density and data speeds when your network requires it.

To further protect investment, the 3Com switches adhere to all current ATM Forum standards, including LAN emulation (LANE), Interim Interswitch Signaling Protocol (IISP), and User Network Interface (UNI). They also support emerging standards such as Available Bit Rate service (ABR).

## Advanced ATM and VLAN Management

You can manage 3Com switches along with other 3Com networking products using 3Com's Transcend management applications. Transcend network management enhances and extends standard Simple Network Management Protocol (SNMP), and provides powerful capabilities for the ATM building campus backbone.

Among the comprehensive features available in Transcend for managing ATM networks are: an ATM Management Tool for administering the physical ATM network; a LANE Tool for topographical management of the LAN emulation services and clients; a VLAN Tool that provides easy-to-use, point-and-click management of virtual LANs; and Device Tools that provide access to the CELLplex 7000 and SuperStack II Switch 2700 through bit maps.

Transcend applications create a management interface with a common look and feel across applications and platforms. They also make configuration and troubleshooting easier to coordinate, and support a range of popular UNIX®-based management platforms: SunNet™ Manager, HP OpenView®, and IBM NetView®/6000.

## ATM Management

**Features in Transcend software for advanced ATM management include:**

- Automatic discovery and display of ATM topology and devices
- Tracing of virtual circuits in the ATM network
- Configuration of permanent virtual circuits (PVCs)
- ATM network performance measurements
- Mapping of physical infrastructure to emulated and virtual LANs

## LAN Emulation

The ATM Forum LANE standard makes it possible for legacy LANs to operate in an ATM network without modification. The ATM network serves as a backbone for the legacy LANs, allowing any ATM-attached device to communicate with any Ethernet-attached device using existing applications. The CELLplex 7000 provides LANE services, while SuperStack II Switch 2700 switches integrate LANE clients.

**The LANE Tool in Transcend allows you to:**

- View SuperStack II Switch 2700 LAN emulation clients (LECs) and the ports to which they are connected
- Trace paths between two LECs through the LAN emulation server (LES)

## Virtual LANs

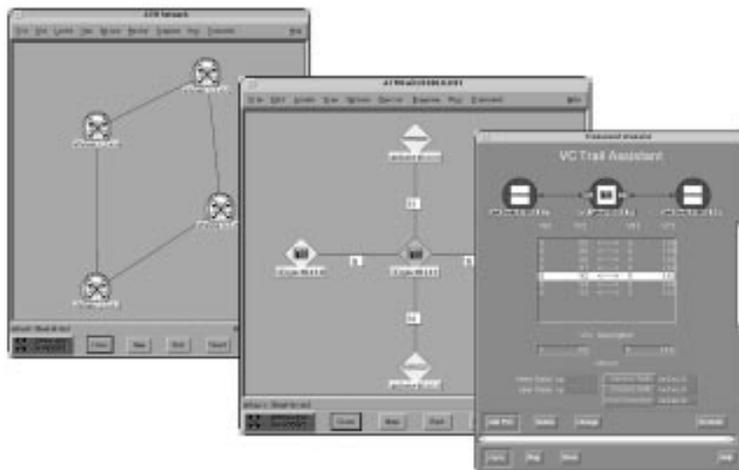
The virtual LAN (VLAN) capability integrated into 3Com's ATM switches allows you to organize network users into logical groups or broadcast domains regardless of their physical location. Using the VLAN Tool in Transcend, you can set up workgroups composed of members from various departments or business units around the enterprise. You can also use VLANs to group servers into centralized server farms.

VLANs simplify management by minimizing subnetwork addresses and the effort required for adds, moves, and changes. This allows you to more easily match the network configuration to the evolving structure of your organization.

In addition, VLANs help to control traffic patterns, prevent broadcast storms, and provide security in switched networks.

**The VLAN Tool in Transcend allows you to:**

- Configure VLANs that are completely independent of wired connections
- View VLAN membership by segment for all VLANs in the network
- Move individuals or groups between VLANs by simply pointing and clicking, dragging and dropping
- Map VLANs to the Ethernet ports in each SuperStack II Switch 2700 switch or 7200 Ethernet/ATM Interface Card
- Establish relationships between LANE clients and servers using LAN Emulation Configuration Server (LECS)
- Interact with LECS to provide redundant LANE services
- Trace the path between two segments, showing the LECs and LES in the path



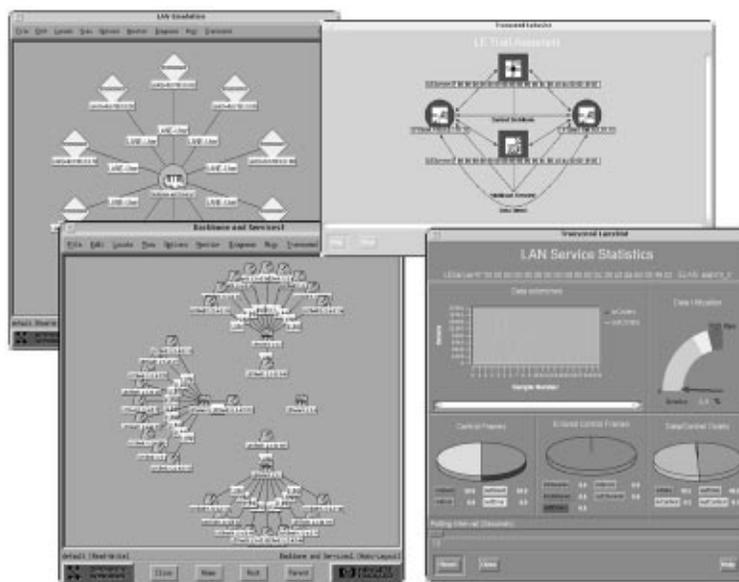
ATM management with Transcend Enterprise Manager for UNIX shows the topology of CELLplex 7000 and SuperStack II Switch 2700 devices in an ATM network, and the path traced between two SuperStack II Switch 2700 edge devices.

**Device Managers**

Graphical device managers in Transcend allow various functions to be performed on the CELLplex 7000 and SuperStack II Switch 2700.

**The Device Tools in Transcend allow you to:**

- Access comprehensive ATM and Ethernet port statistics
- Get device and LEC/LES statistics
- Find out which ports are associated with particular VLANs by means of color-coded graphics
- “Zoom” into devices to see client connections
- Display bit maps with configuration and performance data



LANE management with Transcend Enterprise Manager for UNIX displays LAN emulation components—LANE topology and performance—and traces LANE paths between clients.



VLAN management with Transcend Enterprise Manager for UNIX lets you move segments between VLANs and map VLANs to physical device ports.

## CELLplex 7000

With its high-performance switching engines and backplane, CELLplex 7000 relieves traffic congestion on building and campus backbones. Such congestion is a common problem in client/server LANs and other configurations where an excess of workgroup traffic converges on a few locations.

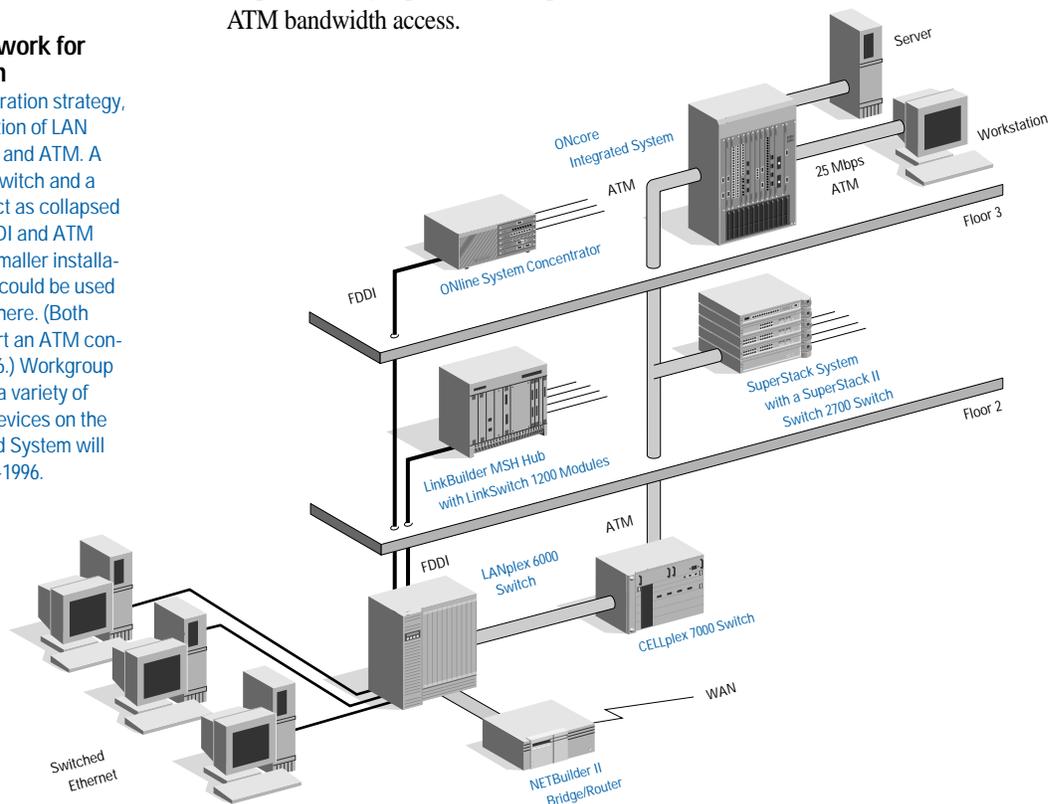
Use the CELLplex 7000 switch as a backbone device to interconnect SuperStack II Switch 2700 Ethernet/ATM switches. Use it to connect directly to Ethernet LANs via a 720x Ethernet/ATM Interface card. Or use it for ultra-high-speed connections to individual power users or workgroup servers via 3Com's ATMLink™ adapters.

### With CELLplex 7000, you can:

- Link multiple CELLplex 7000 switches to form an ATM campus backbone (scalable to 155 Mbps and beyond) that supports VLANs, dramatically boosting performance and permitting a high degree of management flexibility

### A Multitechnology Network for FDDI-to-ATM Migration

As part of a performance migration strategy, this network uses a combination of LAN technologies: Ethernet, FDDI, and ATM. A LANplex 6000 high-function switch and a CELLplex 7000 ATM switch act as collapsed backbone devices for the FDDI and ATM backbone connections. For smaller installations, a LANplex 2500 switch could be used in place of the LANplex 6000 here. (Both LANplex switches will support an ATM connection in the first half of 1996.) Workgroup connections are supplied by a variety of switches and multifunction devices on the floors. The ONcore Integrated System will support 25 Mbps ATM in mid-1996.



- Boost the aggregate bandwidth in a local collapsed backbone configuration using 155 Mbps links to the CELLplex 7000 from a data center switch such as 3Com's LANplex® series, or a high-performance bridge/router such as 3Com's NETBuilder II®
- Establish a multitechnology backbone structure that includes Fiber Distributed Data Interface (FDDI), and/or uses ATM backbones as a basis for migrating other parts of the network to ATM (3Com's ONcore® Integrated System may be used to configure such a structure)
- Provide high-speed Ethernet connections to both shared and dedicated LAN segments, including workgroups and server clusters
- Use VLANs to provide flexible management and configuration
- The switching engine employs a cut-through, self-routing architecture, including seamless integrated multicast support.
- Each CELLplex 7000 port can support up to 4096 virtual channel connections, both point-to-point and point-to-multipoint.
- A separate on-board i960 RISC processor handles all the advanced software features, including switched virtual circuit (SVC) signaling, LANE services, and SNMP management.

### Sophisticated Switching Engine

- The fully redundant 16 x 16 CELLplex 7000 switching engines provide full-rate, non-blocking 2.48 Gbps switching capacity for complete ATM bandwidth access.

### Modular Flexibility

- The flexible, modular design of the CELLplex 7000 supports configurations of 1 to 16 ATM ports, using up to four 4-port interface cards. Ports can be added one at a time in the field.
- Each card accommodates up to four ATM ports consisting of OC-3c 155 Mbps SONET/SDH (multimode or single mode fiber) or UTP Category 5 interface modules for local and collapsed backbone ATM connections, or DS-3 45 Mbps interface modules for wide area links.

- The CELLplex 7000 20.48 Gbps passive backplane can accommodate demands for higher port density and higher bandwidth to handle future growth.

## Ethernet/ATM Connections

- The 720x Ethernet/ATM Interface Cards for the CELLplex 7000 combine local Ethernet switching with ATM switching for servers and backbones. They support up to 48 Ethernet ports and 12 ATM ports in a CELLplex 7000 chassis.
- The 7200 Ethernet/ATM Interface Card provides three OC-3c 155 Mbps SONET/SDH multimode ATM ports. The 7201 Ethernet/ATM Interface Card features a flexible architecture that lets you install one of the following physical module types: OC-3c 155 Mbps SONET/SDH multimode fiber modules, OC-3c 155 Mbps single-mode fiber modules, or UTP Category 5 interfaces for local or regional connections; or DS-3 45 Mbps modules for WAN links.

- The interface cards feature a powerful Ethernet/ATM switching engine based on 3Com's ZipChip ASIC and a RISC processor. The ZipChip converts Ethernet data packets to uniform-size cells and switches them at over 780,000 cells per second locally or to the ATM link. It also efficiently handles the translation needed for standard LAN emulation (LANE clients are integrated into the card).
- Software-selectable cut-through and store-and-forward modes for Ethernet interfaces on the cards add switching flexibility.

## Robust, Reliable Platform

- To preserve uptime in mission-critical environments, the CELLplex 7000 is designed to be fully redundant, with a

dual load-sharing power supply, redundant switching engines, and no single point of failure.

- Modules are hot-swappable to ensure continuous operation during reconfiguration and servicing.
- Standard flow control mechanisms, including EFCI and CLP bit setting support, are used to proactively manage congestion. These mechanisms will support new standards as they emerge.

## Enhanced Standards Support

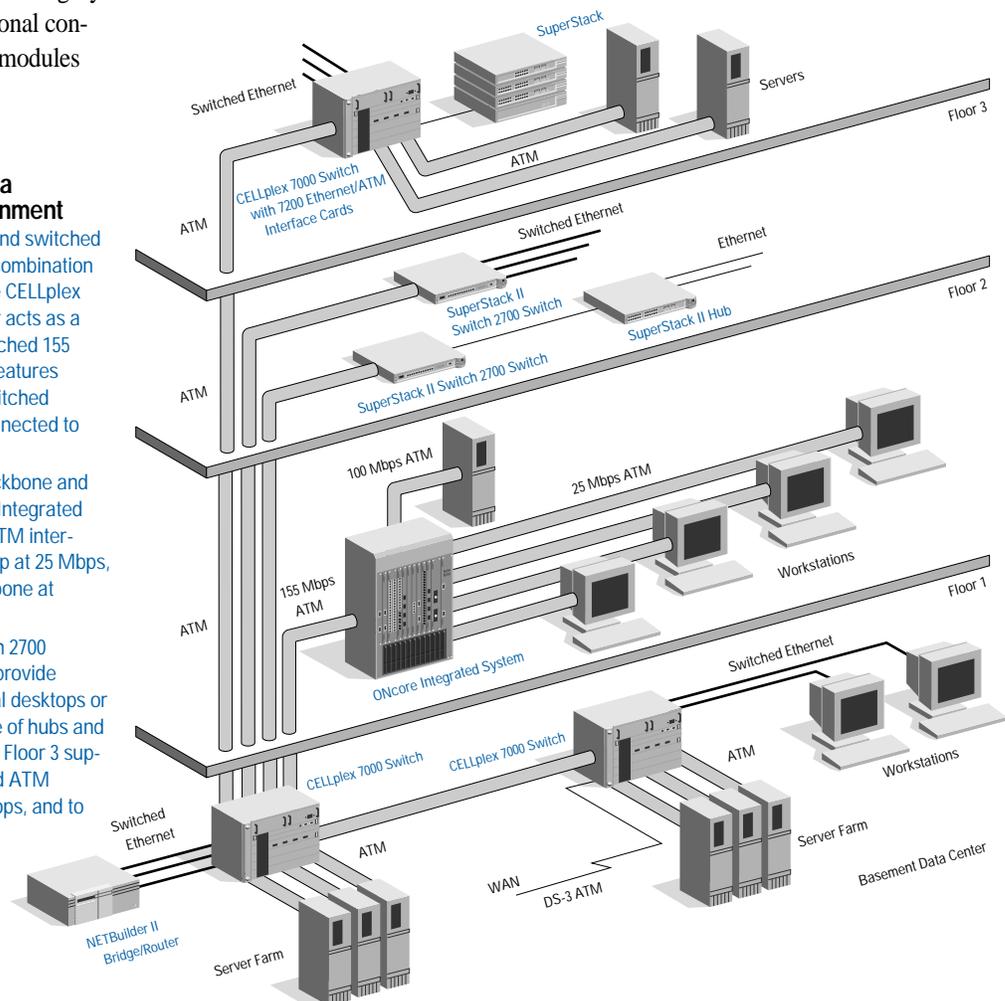
- CELLplex 7000 provides full support for ATM Forum standards, including LANE 1.0, UNI 3.0 and 3.1, and IISP. Additional features in the areas of LAN emulation services redundancy and automated large-network configuration enhance these standards.

## Ethernet/ATM Switching in a Collapsed Backbone Environment

To achieve the highest scalability and switched performance, this network uses a combination of ATM and switched Ethernet. The CELLplex 7000 ATM switch in the data center acts as a collapsed backbone providing switched 155 Mbps to each floor. The CELLplex features state-of-the-art ATM as well as switched Ethernet interfaces that can be connected to workstations or servers.

Connections between the ATM backbone and Floor 1 are provided by an ONcore Integrated System. The ONcore has various ATM interfaces for connectivity to the desktop at 25 Mbps, servers at 100 Mbps, and the backbone at 155 Mbps.

The stackable SuperStack II Switch 2700 Ethernet/ATM switches on Floor 2 provide switched Ethernet links to individual desktops or the installed Ethernet infrastructure of hubs and routers, while the CELLplex 7000 on Floor 3 supports a combination of Ethernet and ATM switching to ATM servers or desktops, and to Ethernet workstations.



## SuperStack II Switch 2700

SuperStack II Switch 2700 is an Ethernet/ATM workgroup switch with 12 Ethernet ports and 1 ATM port for high-speed backbone connections. The switch is ideal for providing the high performance delivered by full-rate Ethernet switching, and then scaling this performance across a building or campus environment via high-speed ATM downlinks.

The SuperStack II Switch 2700 features a two-tiered switching architecture. The switch determines whether the destination of an Ethernet frame is on the same SuperStack II Switch 2700 or not. Frames destined for a port on the same switch are not switched onto the ATM backbone, thereby optimizing switching efficiency.

SuperStack II Switch 2700 is part of 3Com's SuperStack™ system, an innovative architecture that allows you to stack a variety of multitechnology LAN devices together, provide fault tolerance, and manage the stack using integrated Transcend applications.

### *With SuperStack II Switch 2700, you can:*

- Boost performance for shared Ethernet segments or individual workstations in workgroups where nonswitched Ethernet no longer meets bandwidth demands
- Relieve traffic bottlenecks to workgroup servers and server clusters
- Future-proof your network with a workgroup switch equipped and optimized for ATM
- Build highly scalable and flexible Ethernet networks that can utilize an ATM building/campus backbone
- Use VLANs to provide flexible management and configuration for your network

## Cell-Based Workgroup Switching

- 3Com's ZipChip ASIC provides cell-based, wire-speed switching for 12 Ethernet ports (10 Mbps each) and one ATM port (155 Mbps or 45 Mbps). The ZipChip optimizes the conversion between Ethernet frames and ATM cells for superior performance across Ethernet/ATM networks.
- Software-selectable cut-through and store-and-forward modes add Ethernet switching flexibility.

## Management Enhancements

- ATM Forum LANE 1.0 client support, implemented on an on-board i960 RISC processor, enables location-independent virtual LAN capability for simplified network management.
- SNMP management is provided, including support for 3Com's Transcend applications.
- New software can be downloaded via TFTP or the local console.

## Cost-Conscious Investment Protection

- SuperStack II Switch 2700 future-proofs your network with an ATM downlink capability built in, making migration to an ATM backbone easy and economical.
- Ethernet switching operates even if the ATM port is not configured, allowing you to implement Ethernet LAN switching now and connect the LAN to an ATM backbone at a later date.
- No changes are required in existing LAN devices for Ethernet switching, protecting your current network investment.
- ATM and VLAN tools are integrated into Transcend management, so you need only one management system to administer all 3Com equipment in the network.

# Specifications

## CELLplex 7000 and SuperStack II Switch 2700 Ethernet/ATM Switches

### Dimensions and Weight

#### *CELLplex 7000*

Height: 12 in/30.5 cm  
Width: 17 1/4 in/44 cm  
Depth: 11 in/27.5 cm  
Weight: 43 lb/19.5 kg

#### *SuperStack II Switch 2700*

Height: 1 3/4 in/4.4 cm  
Width: 17 1/4 in/44 cm  
Depth: 11 in/27.5 cm  
Weight: 5 1/2 lb/2.5 kg

### Platforms

#### *CELLplex 7000*

Hot-swappable modules  
Redundant dual load-sharing power supply  
Passive backplane with 20.48 Gbps capacity  
16 x 16 core ATM switch  
4 slots for interface cards  
4 ATM port interface cards  
12 Ethernet/3 ATM port interface cards  
Redundant switch engine

#### *SuperStack II Switch 2700*

Compact SuperStack chassis  
ASIC-based design  
Optional Redundant Power System

### Interfaces

#### *CELLplex 7000*

Up to 16 ATM ports:  
155 Mbps OC-3c SONET/SDH multimode/single-mode SC (11 dB); UTP Category 5 (RJ-45); or 45 Mbps DS-3 (BNC)

Up to 48 Ethernet ports:  
Full-rate switched 10BASE-T (RJ-45) – 720x Interface Cards  
Full-rate switched 10BASE-FL (ST) – 720xF Interface Cards

1 RS-232 (DB-9) service port  
1 10BASE-T Ethernet network management port

#### *SuperStack II Switch 2700*

12 Ethernet ports:  
10BASE-T interfaces (RJ-45)  
1 ATM port:  
155 Mbps OC-3c SONET/SDH multimode/single-mode SC (11 dB); UTP Category 5 (RJ-45); or 45 Mbps DS-3 (BNC)

1 RS-232 (DB-9) management port

### Ethernet Switching

#### *SuperStack II Switch 2700*

Cut-through or store-and-forward mode  
MAC-Layer Switching: transparent to all protocols  
Address Table Size: up to 8192  
IEEE 802.1d Spanning Tree support

#### *720x Ethernet/ATM Interface Cards for CELLplex 7000*

Cut-through or store-and-forward mode  
Full-rate multicast support  
MAC-Layer Switching: transparent to all protocols  
Address Table Size: up to 8192  
IEEE 802.1d Spanning Tree support

### ATM Switching

#### *CELLplex 7000*

Non-blocking  
Full-rate integrated multicast support  
VPI/VCI up to 4096 per port  
Integrated SVC control

### ATM Features and Standards

#### *CELLplex 7000*

SVC signaling compliant with UNI 3.0 and UNI 3.1  
PVC support via management IISP  
Congestion management  
ATM Forum LANE 1.0 services and clients (720x Ethernet/ATM Interface Cards)

#### *SuperStack II Switch 2700*

SVC signaling compliant with UNI 3.0 and UNI 3.1  
Rate-based flow control  
ATM Forum LANE 1.0 clients

### Power Requirements

#### *CELLplex 7000*

Power Consumption: 440W  
Heat Dissipation: 1500 BTU/hour  
Input Voltage Range: 85-132 VAC and 170-265 VAC  
Input Frequency: 47-63 Hz  
Input Current (typical):  
4A at 110 VAC  
2A at 220 VAC  
Inrush Current (typical):  
8A at 110 VAC  
4A at 220 VAC

#### *SuperStack II Switch 2700*

Power Consumption: 70W  
Heat Dissipation/Hour: 240 BTU/hour  
Fuse Protection: 2A  
Input Voltage Range: 100-240 VAC  
Input Frequency: 50/60 Hz  
Input Current (typical):  
0.6A at 110 VAC  
0.3A at 220 VAC  
Inrush Current (peak):  
2.2A at 110 VAC  
1.1A at 220 VAC

### Environmental Ranges

#### *CELLplex 7000 and SuperStack II Switch 2700*

Operating Temperature: 32° to 104° F (0° to 40° C)  
Operating Humidity: 10% to 95% noncondensing  
Storage Temperature: -22° to 140° F (-30° to 70° C)  
Storage Humidity: 10% to 95% noncondensing

### Indicators

#### *CELLplex 7000*

Switch Management: 10BASE-T status, service port status, control terminal status

ATM Ports: link status, fail, activity

Unit: power, fail, activity

Power Supply: power

#### *SuperStack II Switch 2700*

Ethernet Ports: per-port link status, collision, activity  
ATM Port: link status, fail, activity

Unit: power, fail, activity

### Management

All switches support Transcend applications and SNMP

#### *CELLplex 7000*

Out-of-band management via 10BASE-T port  
Local management via RS-232 (DB-9) port  
ILMI and OAM support  
MIBs supported: MIB 2, AToM MIB (based on draft 6.0)

#### *SuperStack II Switch 2700*

In-band SNMP management over Ethernet  
Local management via RS-232 (DB-9) port  
ILMI and OAM support  
MIBs supported: MIB 2, Bridge MIB, Ethernet MIB, AToM MIB (based on draft 6.0), Virtual LAN MIB (private)



# Specifications (continued)

## CELLplex 7000 and SuperStack II Switch 2700 Ethernet/ATM Switches

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## Standards Compliance

Electromagnetic Compatibility:  
FCC Part 15, EN50081-1 (EN55022 Class B); EN50082-1 (IEC 801-2, IEC 801-3, IEC 801-4)

Safety: EN60950, UL1950, CSA22.2, TUV  
CELLplex 7000: IEEE 825-1, 825-2; PCB UL94V-O; PCB; ANSI/IEEE; RB-276 Class 2

Communications Protocols: RFC 826 ARP, RFC 791 IP, RFC 792 ICMP, RFC 768 UDP, RFC 793 TCP

Ethernet Protocols:  
IEEE 802.1d, IEEE 802.3

Management Protocols: RFC 1157 SNMP, RFC 1212 Concise, RFC 1213 MIB II, RFC 1212 Traps

Others: VT100 terminal interface protocol

## Ordering Information

### CELLplex 7000 Chassis

CELLplex 7000  
(chassis with switching engine, 1 power supply, and fan unit) 3C37000

CELLplex 7000  
Redundant Power Supply 3C37010

CELLplex 7000  
Redundant  
Switch Engine 3C37016

### ATM Interface Cards and Modules

CELLplex 7000  
Interface Card (4-port,  
OC-3c multimode) 3C37052

CELLplex 7000  
Interface Card  
(no modules) 3C37005

CELLplex 7000  
Physical Module  
(1 OC-3c single mode  
short reach) 3C37058

CELLplex 7000  
Physical Module  
(1 OC-3c multimode) 3C37060

CELLplex 7000  
Physical Module  
(1 DS-3) 3C37061

CELLplex 7000  
Physical Module  
(1 155 Mbps TP) 3C37062

## Ethernet/ATM Interface Cards

7200 Ethernet/ATM  
Interface Card  
for the CELLplex 7000  
(12 Ethernet ports,  
3 multimode  
OC-3c ATM ports) 3C37262

7201 Ethernet/ATM  
Interface Card  
for the CELLplex 7000  
(12 Ethernet ports,  
3 empty ATM ports) 3C37263

7200F Fiber Ethernet/ATM  
Interface Card  
for the CELLplex 7000  
(12 Fiber Ethernet ports,  
3 multimode OC-3c ATM ports)  
3C37264

7201F Fiber Ethernet/ATM  
Interface Card  
for the CELLplex 7000  
(12 Fiber Ethernet ports,  
1 multimode OC-3c ATM port)  
3C37266

## SuperStack II Switch 2700

SuperStack II Switch 2700  
(OC-3c multimode  
ATM interface) 3C32700A

SuperStack II Switch 2700  
(OC-3c single mode  
short-reach  
ATM interface) 3C32711

SuperStack II Switch 2700  
(DS-3 ATM interface) 3C32710

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