

digital

DIGITAL MultiSwitch 900 switching system

Industry-leading switching performance with unmatched technology integration

Imagine a true multi-gigabit, multi-technology switching system that adapts to your changing networked computing needs as easily as clicking a mouse. It's not a dream—it's what you get with the DIGITAL MultiSwitch™ 900 system. This versatile, award-winning switching platform exceeds the performance required by today's demanding network applications—so your investments are protected into the future. Plus, you get the flexibility to integrate multiple technologies with assured interoperability and easy software manageability.

With the MultiSwitch 900 system, you get the only switching chassis that can deliver multi-gigabit switching performance—regardless of networking technology—designed for wiring closet and data center configurations. Whether your switching requirements include Ethernet, Fast Ethernet, Gigabit Ethernet, FDDI or ATM, the DIGITAL MultiSwitch 900 maximizes network performance across all these technologies.

Built on the enVISN™ architecture to ensure scalable bandwidth and easy, flexible network reconfiguration, the MultiSwitch 900 system is the ideal solution for today's dynamic network environment. Its non-blocking, low-latency, multi-gigabit switching fabric ensures maximum performance for heterogeneous networks. With its built-in, standards-based multi-technology switching capability, the MultiSwitch 900 switching platform also integrates disparate, multivendor, shared and



DIGITAL MultiSwitch 900

DIGITAL MultiSwitch 900: The Inside Story

switched LANs with ease. And, with DIGITAL *clearVISN*™ policy-based management applications, you can manage complex, multitechnology networks through an easy, graphical interface from a single centralized management platform.

For outstanding network performance today, get the switching platform designed for tomorrow—the DIGITAL MultiSwitch 900 system.

Benefits

- Protects investments without hardware obsolescence—open technology backplane design supports any current or emerging cell or packet-based networking technology
- Simplifies the addition of new leading-edge switching capabilities and LAN support with fast, easy, no-extra-cost firmware upgradability
- Simplifies management with low-cost *clearVISN* policy-based SNMP tools, providing comprehensive, easy-to-use network management in a single, integrated suite of software applications
- Ensures fail-safe reliability—hot-swappable, full N+1 redundant power system maximizes uptime for your network
- Provides the best overall value possible with the lowest priced, highest function enterprise-class switching chassis available

LCD status display
"at-a-glance management"

Built-in hub management module

- No additional cost—save thousands of dollars
- Doesn't use any valuable chassis slots

Out-of-band management port

- SNMP management provided by *clearVISN* via SLIP (identical to in-band graphical interface)

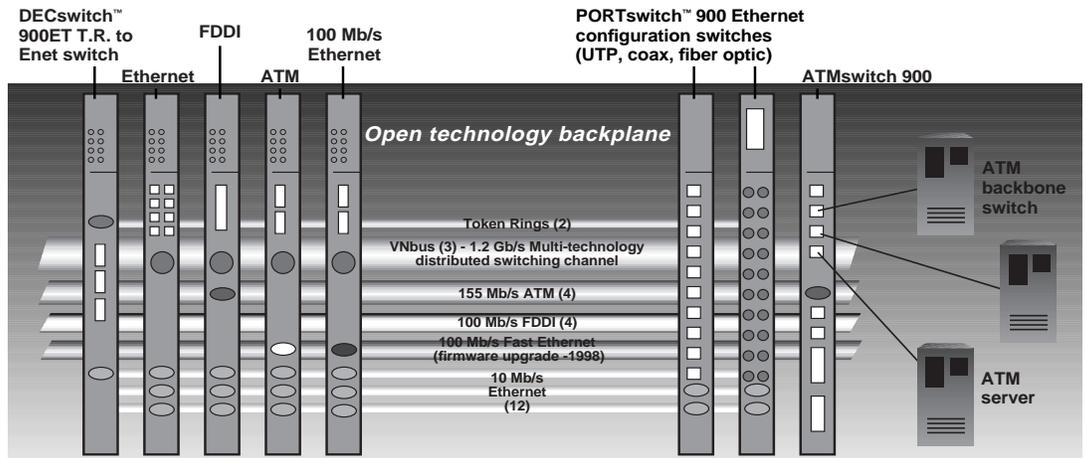
Multi-gigabit passive matrix backplane

- Provides 5.6 Gb/s of aggregate throughput
- Software definable—supports virtually any type of packet or cell-based technology

True "smart power" architecture

- Guaranteed redundancy
- Load-sharing
- Hot-swappable
- Doesn't occupy valuable chassis slots

VNswitch 900—Multi-technology switch products:



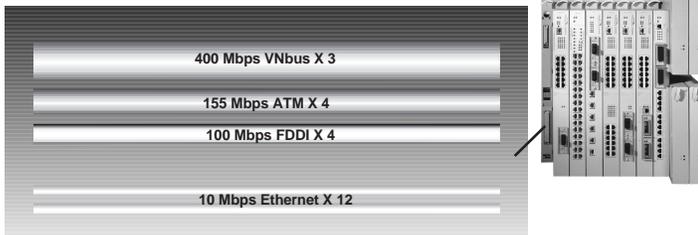
MultiSwitch 900 Chassis—Software-definable—not hardware limited. Designed to meet your current and future network requirement

High-performance, software-definable switching backplane

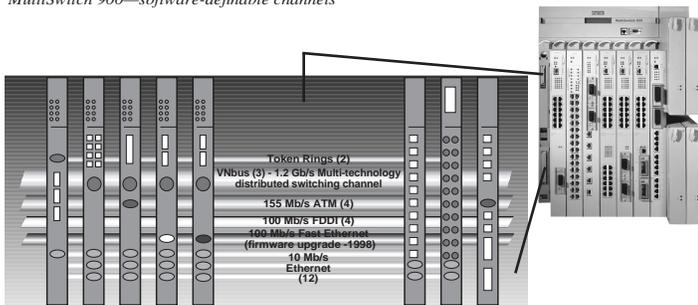
With its unique open technology, 5.6 Gb/s aggregate bandwidth, and 1.2 Gb/s multi-technology VNbus distributed switching fabric, the MultiSwitch 900 system delivers optimum, multilayer switching performance along with support for the full complement of current and emerging packet and cell-based technologies. And thanks to a software-definable, multi-technology backplane, all it takes is a simple click of the mouse to reconfigure your network, add a new LAN technology, or create virtual LANs.

A unique feature of the DIGITAL MultiSwitch 900 system, this software-definable backplane offers maximum freedom of choice and investment protection. Unlike hardware-based backplanes, the MultiSwitch 900 offers extensive scalability and technology migration. A network administrator simply defines the type and number of LANs supported through the graphical interface of DIGITAL's *clearVISN* MultiChassis Manager network management tool. Moves, adds, and changes are accomplished in minutes without the need for hardware modifications or obsolescence.

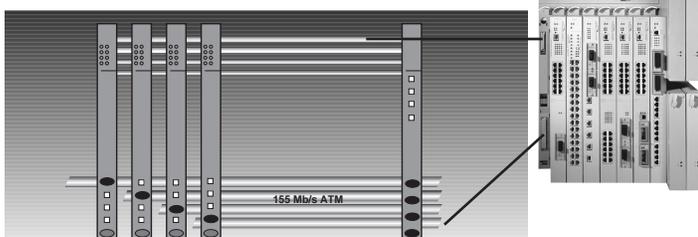
You can also smoothly migrate from shared to switched networking since the backplane supports a wide variety of shared hub, access server and routing products without compromise or complications. In fact, all existing DIGITAL 90/900 series products are fully supported by the MultiSwitch 900 system.



MultiSwitch 900—software-definable channels



Example of MultiSwitch 900 backplane software-configured for high-speed, multi-gigabit, multi-technology layer 2 & 3, switching solution



Example of MultiSwitch 900 backplane software-configured to provide multiple OC-3, native ATM cell channels

Simple, low-cost network management

The DIGITAL MultiSwitch 900 system includes a built-in Simple Network Management Protocol (SNMP) chassis management agent—no need to purchase a separate agent. This chassis agent is specifically designed to manage multislot chassis functions, enabling you to create and delete LAN types, allocate bandwidth, and configure switching and connectivity modules onto the backplane across all eight chassis slots on the backplane.

This integral agent design, combined with DIGITAL *clearVISN* policy-based management software, provides full SNMP management without sacrificing valuable hub slots or straining your budget to add extra management modules. *clearVISN* provides the same easy-to-use, graphical interface for both in-band and out-of-band management, so you can instantly switch traffic, reconfigure LAN segments, and manage your hubs with the click of a mouse.

The POWERswitch provides an extra level of protection, offering the following capabilities:

- Guards against network downtime due to loss of AC power
- Provides two independent AC power sources for a wide variety of networking devices
- Senses loss of AC power from the primary source and automatically switches to the backup AC power source

Indicator lights on the outside of the POWERswitch show the presence of a primary power source, an auxiliary power source, and AC power. If the primary power source fails, the POWERswitch will automatically switch to auxiliary power within 20 milliseconds—preventing the loss of your network connection. When the primary power returns, the POWERswitch automatically switches back to the primary source, again within 20 milliseconds.

Maximum uptime with redundant power

The DIGITAL MultiSwitch 900 power system is a true hot-swappable design, ensuring N+1 power redundancy regardless of the system configuration. The MultiSwitch 900 system supports up to four power supply units, which can be added incrementally. This not only minimizes cost, but provides multiple levels of power redundancy when needed. As a result, you are assured of maximum uptime for your networked computing environment.



POWERswitch—the easy way to provide redundant AC power

The POWERswitch™ is an optional stand-alone device that is easily attached to the MultiSwitch 900 chassis to provide redundant AC power.



Technical specifications

Chassis

Height	57.8 cm (22.75 in)
Width	44.5 cm (17.5 in)
Depth, chassis only	5.1 cm (2.0 in)
Depth, power supply	21.6 cm (8.5 in) module only
Depth, 900 series products	15.2 cm (6.0 in) network module only
Depth, 90 series products	11.2 cm (4.4 in) network module only
Operating temperature	5 degrees C to 50 degrees C (41 degrees F to 122 degrees F)
Humidity	10% to 95% non-condensing
Chassis with rack/wall	14.4 kg (32 lb) mounting brackets
Power supply	2.25 kg (5 lb)
90 series products	0.68 kg (1.5 lb) typical 90 module
900 series products	1.8 kg (4.0 lb) typical 900 module

Rack mount option

Mounting area

Height	57.8 cm (22.75 in)
Width	45.0 cm (17.71 in)
Depth	31.8 cm (12.5 in)

Required clearance

Bottom	7.7 cm (3 in)
Top, sides, rear	None
Front	As required for attached cabling

Wall mount option

Mounting area

Height	57.8 cm (22.75 in)
Width	44.5 cm (17.5 in)

Required clearance

Top and bottom	7.7 cm (3 in)
Sides	2.54 cm (1 in)
Depth from wall	1.8 cm (12.5 in)

Electrical

Input voltage	88 to 264 V auto-ranging
AC line frequency	50 Hz to 60 Hz
Input current	Less than 10 A
Maximum heat	730 W dissipation
Maximum input power	1,000 VA consumption

Worldwide service and support

The DIGITAL MultiSwitch 900 system is covered by a one-year return-to-DIGITAL warranty. For additional related services, contact your local DIGITAL Multivendor Customer Services organization or authorized reseller.

For more information

For more information about the DIGITAL MultiSwitch 900 system and other DIGITAL network products, or for the name of the DIGITAL reseller nearest you, call 800-457-8211 in the United States only; worldwide, Fax +1 508-392-0605.

Ordering information

DIGITAL Part #	Description
DMHUB-##	DIGITAL MultiSwitch 900 8-slot switching Chassis (includes one supply)
power	
H7894-MA	MultiSwitch 900 redundant power supply units
H7661-AA	POWERswitch - Redundant AC power option

Note: ## should be replaced by the following letters to ensure that the appropriate country kit is ordered. AA = U.S., Canada, and Japan; AC = Denmark; AE = United Kingdom; AI = Italy; AK = Switzerland; AT = Israel; AX = Central Europe; AZ = Australia; BJ = India and South Africa

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