



Madge 8600 Token Ring Switch

The Madge.connect family of stackable Token Ring switches opens the door to a wealth of opportunities for mission-critical Token Ring networks

- Advanced Technology for Maximum Flexibility
- Simple Migration to High-speed Networking
- New Level of Investment Protection

The Madge 8600 switch combines superior technology with low per-port pricing, giving network managers the ability to boost LAN performance and extend existing Token Ring investments. The Madge 8600 switch offers the most complete set of Token Ring features and operating modes, including MAC layer and source-route bridge handling. Suitable for network backbones, workgroups and switched Token Ring desktop connections, the Madge 8600 switch provides the bandwidth needed to fully support the business needs of today's networks, and provides an ideal edge switch platform to high-speed technologies such as 100 Mbps Token Ring, Fast Ethernet and ATM.

Features

- Industry-leading performance
- Auto-configuration – including media auto-sensing – for easy installation
- Three switching modes – Cut-Through; Store and Forward, and Adaptive Cut-Through
- Up to 224 switched ports in a stack for cost-effective LAN expansion
- Advanced filtering for more efficient network performance, including security and broadcast control
- Full range of advanced Token Ring bridging modes for seamless integration
- Multiple Token Ring port modes
- Supports IEEE and IBM spanning tree
- Full-duplex Dedicated Token Ring (DTR) for performance boosts of up to 97%
- Extensive range of advanced network management capabilities
- Supports RMON and standard MIBs
- RI/RO-like connectivity for single-ring connection to CAU/LAM
- Optional redundant power supply
- Optional stack fault tolerance option
- Optional 100 Mbps Token Ring uplinks
- Optional Fast Ethernet uplinks using translational switching
- Optional ATM 155 Mbps uplinks using LAN emulation bridging for ATM migration



Madge 8600 Token Ring Switch

New Level of Investment Protection

The industry-leading performance combined with low per-port pricing and options for high-speed connectivity result in extensive investment protection for existing Token Ring LANs. The Madge 8600 Token Ring switch makes an ideal platform for establishing network microsegmentation and dedicated, switched Token Ring connections to individual workstations as well as servers.

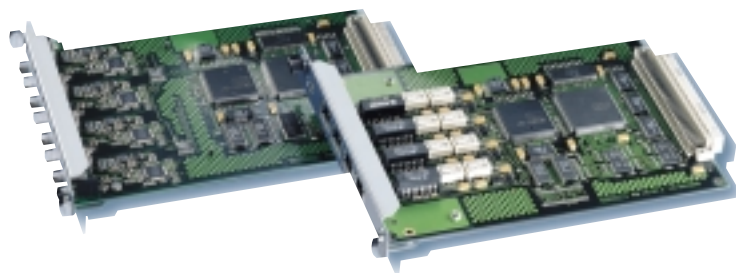


Simple Migration to High-Speed Networking

The Madge 8600 Token Ring switch provides a flexible, investment-secure migration path to high-speed networking. Initially, it can boost LAN performance by replacing collapsed backbones – without requiring changes to existing bridges – using its Source Route Switching (SRS) capabilities. To further increase throughput, reduce latency and rationalize network hardware, the Madge 8600 switch can assume the role of source-route bridges using Source Route Bridging (SRB). Splitting up large networks into smaller segments makes better use of bandwidth and improves performance. The Madge 8600 switch is superbly designed for the fast, effective creation and management of LAN microsegmentation. Using the switch's high-speed uplink options, users can easily and reliably

Advanced Technology for Maximum Flexibility

All the switch models in the Madge 8600 Token Ring switch family feature all per-port connectivity options (classical, DTR and C-port) and all switching modes (transparent, SRS, SRB and SRT) are included. Advanced filtering allows network managers to control broadcasting and implement the security measures necessary in large switched networks. There are also flexible stacking options and VLAN capabilities that give the Madge 8600 switch excellent scalability. The result is a product range that fulfills the promise of Token Ring switching as the premier tool for extending existing investments and cost-effective migration to high-speed networking.



access the broad bandwidth afforded by a choice of high-speed LAN technologies including 100 Mbps Token Ring, Fast Ethernet and ATM.



8600 Stacking and Power Options

Three methods of stacking are available to suit different applications: back-to-back, internal and external stacking.

Product Specifications

Madge 8600

Token Ring

Switch

Capacity

Global lookup table size: 10,000 (stations and bridges, with 8 Mb main memory)
Local lookup table size: 5,500 (stations and bridges) total for 4 ports
Number of logical rings: 1 - 63
Max. number of VLANs: 63

Hardware

Width: 483mm (19")
Height: 88mm (3.46") (OC-8601 and OC-8602: 66mm (2.59"))
Depth: 400mm (15.74")
Weight: 8.8kg (19.4 lbs) (OC-8601 and OC-8602: 7.2kg (15.9 lbs))
MTBF: 62,163 hours
Token Ring ports: 20 UTP (base configuration) (OC-8605: 20 VF-45 fiber ports)
Stackability: 8 switches (using OC-8300 Stacker Unit)
or 5 switches (using OC-8635 Internal Stacker)
Expansion slots: (OC-8600 and OC-8605) 2 in front panel for UEMs and 1 in back panel for stack link modules Safety Certifications EMI and Safety Certifications
Expansion modules:

- 4 port RJ45 Token Ring
- 4 port ST Fiber Token Ring (supports 802.5j and CAU/LAM systems)
- 1 ATM 155 Mbps ATM Card (SC Fiber)
- 2 port 100 Mbps Token Ring (UTP or VF-45 Fiber)
- 2 port 10/100 Ethernet (UTP)

Power: 90 to 264 V AC auto-sensing
Frequency: 47 to 63 Hz
AC current rating: 1.5A @120V; 0.75A @ 220V
Management console: EIA RS 232; DB9 DTE connector

Software

Network management: SNMP; Telnet sessions; HP OpenView for Windows 95 & Windows NT; Olicom Integrated Management System (IMS)
Updates: Flash PROM; BOOTP/TFTP
MIB support: SNMP MIB II (RFC1213);
SR Bridge MIB (RFC 1493/1525); Evolution of the Interfaces Group of MIB/II (RFC1573); RMON MIB/TR extensions (RFC1757/1513, partial support); IEEE 802.5 MIB (RFC1749/1748); IEEE 802.5r DTR MIB; IEEE 802.5r DTR MAC MIB; Olicom OC 8600 Unit MIB
Protocol compatibility: Transparent to higher layer protocols
Spanning Tree
Protocol support: IEEE 802.1d compliant; IBM Spanning Tree

Operating Environment

Thermal dissipation: 100 W, 340 BTUs/hr
Operating temp.: 10 to 40°C (50 to 104°F)
Non-operating temp.: -25 to 70°C (13 to 158°F)
Operating humidity: 8 to 80%
Non-operating humidity: 90% @ 45°C (113°F)

Cabling

Copper cable types:	Cable Type	Impedance
	Types 1 and 1A	150 Ohm
	Types 2 and 2A	150 Ohm
	Type 8	150 Ohm
	Type 9	150 Ohm
	Type 3	100 Ohm
	Category 3	100 and 120 Ohm
	Category 4	100 and 120 Ohm
	Category 5	100 and 120 Ohm

Madge 8600 Token Ring Switch

Product Specifications

Multimode optical fiber cable types:	65.5/125 Micron Fiber 50/125 Micron Fiber 100/140 Micron Fiber		
Full duplex (DTR) Token Ring lobe lengths:	Types 1 & 1A	4 Mbps 750 m (2460 ft)	16 Mbps 430 m (1410 ft)
	Types 2 & 2A		
	Type 8	376 m (1234 ft)	215 m (705 ft)
	Type 9	500 m (1640 ft)	295 m (968 ft)
	100 Ohm Type 3	100 m (328 ft)	Not Supported
	100 Ohm Cat. 3	250 m (820 ft)	100 m (328 ft)
	100- or 120 Ohm Cat. 4	350 m (1148 ft)	200 m (656 ft)
	100- or 120 Ohm Cat. 5	350 m (1148 ft)	200 m (656 ft)
Half duplex (shared) Token Ring lobe lengths:	Maximum distances for Shared Media LAN segments are defined by the hub or concentrator attached to the Madge 8600 Token Ring switch.		
EMI and Safety Certifications			
Emissions:	FCC Class A; EN55022A;		
Safety:	UL1950; UL-C; EN60950 (TUV); EN50082-1		

Ordering Information

Part No.	Description
OC-8600	Token Ring Switch
OC-8601	Token Ring Desktop Switch
OC-8602	Workgroup Token Ring Switch
OC-8605	Fiber Token Ring Switch (VF-45)
OC-8610	Token Ring UEM 4 Port RJ45
OC-8611	Token Ring UEM 4 Port Fiber (ST)
OC-8630	Stack Link Module
OC-8635	Internal Stacker Unit
OC-8300	Stacker Unit
OC-8301	Redundant Stack Matrix for OC-8300
OC-8310	Redundant Power Unit (Incl. one PSU)
OC-8311	Redundant PSU for OC-8310
OC-8321	ATM155 LANE Uplink UEM Fiber (SC)
OC-8650	100 Mbps Token Ring UEM 2 Port UTP
OC-8651	100 Mbps Token Ring UEM 2 Port Fiber (VF-45)
OC-8660	10/100 Ethernet UEM 2 Port UTP



Europe,
Middle East & Africa
Madge.connect
Wexham Springs
Framewood Road
Wexham
Slough SL3 6PJ
England
Tel: +44 1753 661000
Fax: +44 1753 661011

Americas
Madge.connect
2314 North First Street
Ste 100
San Jose, CA 95131-1011
United States
Tel: +1 408 955 0700
Fax: +1 408 955 0970

Asia Pacific
Madge.connect
Suite 4B, 15 Orion Road
Lane Cove
NSW 2066
Australia
Tel: +61 2 9936 1700
Fax: +61 2 9936 1799