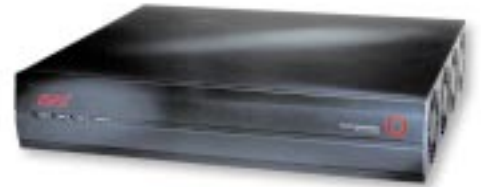




# MAX 6000

The MAX™ 6000 high-density WAN access switch gives service providers and corporations the increased performance, reliability and expandability needed for current and future access applications. The MAX 6000 combines the latest in hardware technology with the Ascend True Access™ Operating System (TAOS) to deliver the industry's most cost-effective wide area network (WAN) services platform.

This flexible chassis features flash memory and slot cards, as well as the software upgradable protocols and services needed for today's high-powered applications. NavisAccess™ network management software provides extensive WAN and service management. Integrated security enables service providers to offer reliable, secure access to the Internet, a corporate intranet or a virtual private network.



## Advanced architecture ensures high-performance connectivity

State of the art architecture allows the MAX 6000 to maintain line speed performance as the number of simultaneous calls increases.

- 64 MHz i960HD RISC processor for CPU-intensive functions like packet forwarding and filtering
- Increased STAC data compression for optimizing throughput while reducing connectivity time and costs
- Autosensing 10/100Base-T interfaces for seamless integration into legacy Ethernet or Fast Ethernet networks

## High-speed digital modems enhance performance and reduce operating costs

MAX Series56™ Digital Modem slot cards provide highspeed V.90 access to analog modem callers. Analog calls come in over any of the DS channels carried by the ISDN BRI interfaces, and are demodulated in the slot cards.

- V.90, K56flex, V.FC, V.32bis, V.23, V.22A/B, V.21, Bell 212A and Bell 103 compatible
- MNP 2-4, MNP 10 EC (error correction)

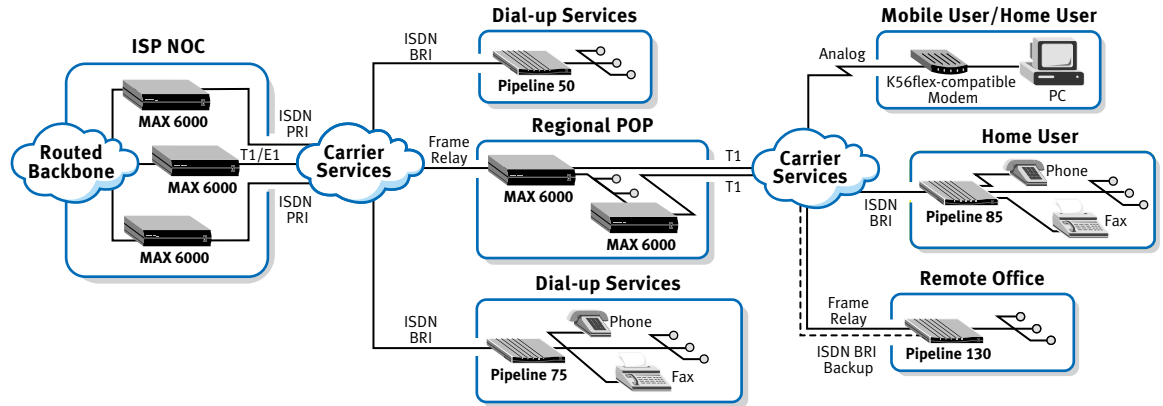
- V.42bis, MNP 5 data compression, fax modem dial-out up to 14.4 Kbps
- Remote downloadable modem firmware

## Iron-clad security ensures privacy, integrity and confidentiality to all applications

The security provisions of the MAX integrate seamlessly into existing network security architectures. These built-in features also make it easy to manage large-scale remote access applications from a central site.

- User authentication compatible with RADIUS, NavisRadius™, TACACS and TACACS+
- Encrypted token-card security, callback (for digital connections), Calling Line ID (CLID) and transmit/receive packet filtering
- SecureConnect™ ICSA-certified firewall (optional)
- Ascend Tunneling Management Protocol (ATMP), Point-to-Point Tunneling Protocol (PPTP), Layer-2 Tunneling Protocol (L2PT)





The MAX 6000 can be used at an NOC or a regional POP to support multiple types of access services.

### Centralized management and service capabilities enhance business offerings

The Navis™ service management suite of powerful network management applications lets service providers deliver new networking services to business and enterprise customers more quickly and profitably.

- NavisAccess offers extensive WAN and service management capabilities

- NavisConnect™ adds GUI configuration tools for all TAOS devices
- Capabilities include remote management from a central site, including change control and update validation

Managed by **Navis™**

## Hardware Specifications

### Dimensions

7.6 cm X 43.2 cm x 30.5 cm  
[3.5 in x 17 in x 12 in]

### Weight

6.8 kg [15 lbs]

### LAN Interface

Ethernet 10/100Base-T full duplex, autosensing

### WAN Interface

4 T1/E1 interfaces with integrated CSU, V.35 serial port

### Software Upgrade

Via PCMCIA FLASH card, remote downloadable

## Key Features

### Routed LAN Protocols

TCP/IP via RIP, RIP2, OSPF, AppleTalk and IPX (with Intragy™)

### Bridged LAN Protocols

All (with Intragy)

### WAN Protocols

ARA (with Intragy) PPP, SLIP, C-SLIP, Async PPP, Sync PPP, X.25 PAD, X.25 over B-channel, V.110, V.120, D4 framing (T1/E1), G703/732 framing (R1), FR PVC, PPP-FR gateway, FR NNI, ISDN signaling, ITU-T R2 on E1

### Modem Support

V.90, K56flex, V.FC, V.32, V.23, V.22A/B, V.21, Bell 212A and 103, MNP 2-4, MNP 10-EC, V.42bis, MNP 5 data compression, fax modem dial out to 14.4 Kbps

### Bandwidth Management

Multilink PPP (MP), Multilink Protocol Plus™ (MP+), Bandwidth Allocation Control

### Power Requirements

47 – 63 Hz, 90-240 VAC, 1,360 BTU/hour,  
Maximum Designed Power Draw: 625 watts,  
Maximum Operating Power Draw: 225 watts (with 6 MX-SL-16MOD-S56),  
Minimum Operating Power Draw: 80 watts (no cards installed)

### Environmental

Temperature: 0° – 55°C [32° – 131°F]  
Altitude: 0 – 4500 meters [0 – 14,800 feet], Relative Humidity: 0 – 90% (non-condensing)

Protocol (BACP), TCP header compression, data compression (Ascend/Microsoft/STAC V9)

### Security

SecureConnect Firewall, RADIUS, NavisRadius (extended RADIUS), TACACS, TACACS+, Password Authentication Protocol (PAP), Challenge Authentication Protocol (CHAP), MS-CHAP, token card, Calling Line ID (CLID), packet filtering, SNMP, console management (VT-100), PPP callback, user authentication

### Operating System

True Access Operating System

### Virtual Private Networking

Ascend Tunneling Management Protocol (ATMP), Point-to-Point Tunneling Protocol (PPTP), Layer-2 Tunneling Protocol (L2TP)

### Safety Certifications

CSA 950, NRTL/UL 1950, TUV EN 60 950

### EMI/RF

FCC Part 68, FCC Part 15, E55022, EN50082-1

### Remote Networking Software

Transparent Bridging, Multiprotocol routing (adds routing support for IPX and AppleTalk), Multiprotocol Access (Async IPX with local spoofing, AppleTalk Remote Access 1.0 & 2.0), Intragy and IntragyAccess™

### Management

NavisAccess, NavisConnect, Java Configurator, Telnet, NASI, SNMP MIBSII, PPP, LQM, Frame Relay Annex D, Frame Relay ITU Annex A, Frame Relay ANSI Annex D, ISDN event log, Syslog support

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