

Ascend

MAX 200Plus

(8 Port Analog and ISDN PCMCIA WAN Access Switch)

The MAX™ 200Plus is the cost-effective, full-featured WAN access switch for remote office connectivity.

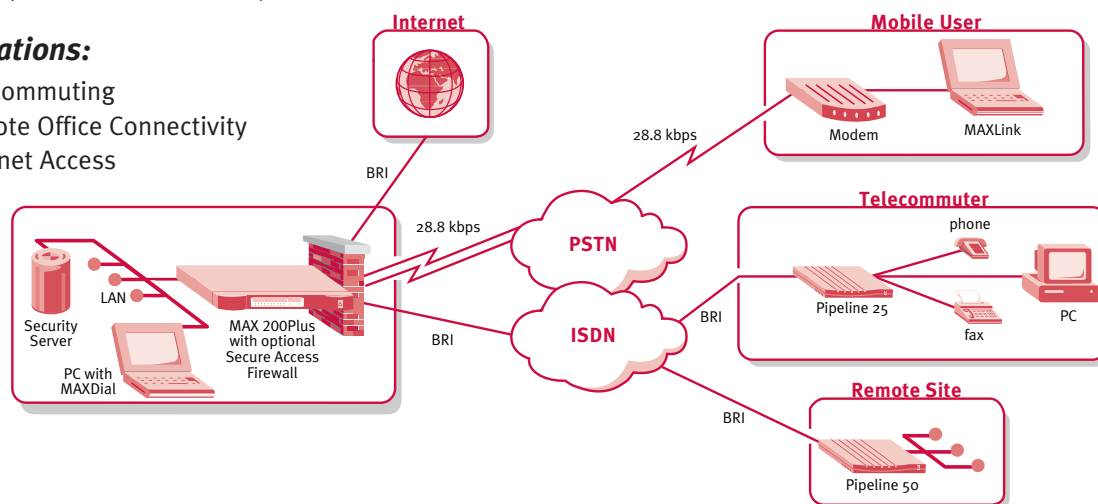


What it does

- Provides telecommuters and mobile workers with multiprotocol, dial-in/dial-out access to office LAN services
- Links remote offices and their mobile users to corporate communications backbones and other corporate sites (LAN-to-LAN over ISDN)

Applications:

- Telecommuting
- Remote Office Connectivity
- Internet Access

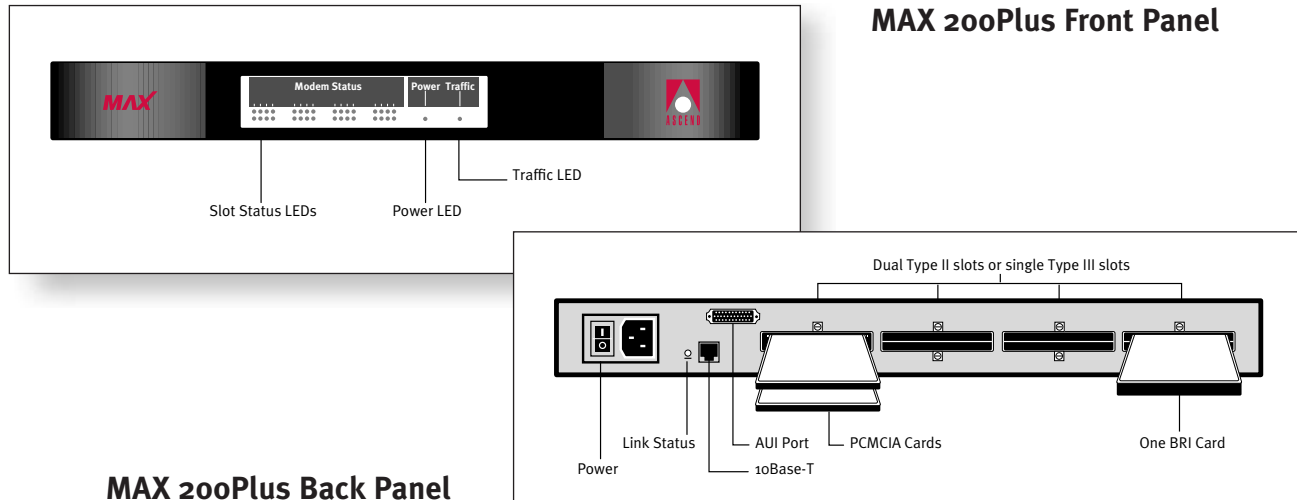


Selling Points

- **PCMCIA server** – Supports cost-effective, off-the-shelf, industry-standard PCMCIA analog modem cards, and Ascend's ISDN BRI modules (with or without NT1).
Certified PCMCIA modem support includes Megahertz, Intel, AT&T, US Robotics and others. Modem cards not certified are recognized as Hayes compatible.
- **Only integrated analog/ISDN solution** – Provides flexibility to mix-and-match analog and ISDN configurations in a single box; easiest upgrade path to ISDN.
- **Industry's lowest cost of ownership** – Lowest base price. Lowest cost-per-modem. Lowest operating costs (automatically increases/decreases bandwidth during connection).
- **Easiest set-up** – Auto configuration. Be up and running in 15 minutes.
- **Easiest management** – Hot-swappable components let you change configuration or swap out modems and ISDN BRI modules without shutting down service; manage unit locally or remotely.
- **Free MAXLink Pro remote node client software** – Allows remote users to become a full fledged node on a remote LAN with access to file server, printer and e-mail, from Windows 3.1X, and Win 95, Windows NT or Macintosh 7.x or later.
- **Free MAXDial client software** – Allows network users to access MAX modems from their desktop for dial out or faxing, Windows 3.1X, Win 95, Windows NT and Macintosh 7.x or later.
- **Largest scalable family** – As remote access needs expand, customers can scale up to other products in the Ascend family which share the same compatible feature set.
- **Fully integrated Secure Access™ Firewall (optional)** – Protects corporate network.



MAX 200Plus Features



Feature Set

- Eight PCMCIA card slots Type II (analog) or Four Type III (ISDN BRI)
- Mixed analog or digital communications – any combination of analog and ISDN cards in 8 available slots for easy incremental expansion
- LAN protocols: TCP/IP, IPX
- WAN protocols: SLIP, PPP, ARAP, MP, MP+
- Routes IP, IPX, transparent bridging for others (BCP standard)
- Hot-swappable modems and ISDN BRI modules
- Dynamic Bandwidth Allocation™ – saves money by increasing/decreasing bandwidth during connection
- Outbound modem and fax pooling
- Remote Node Communications software for remote clients
- Comprehensive access security
- LAN-to-LAN connections
- Supports software downloads via flash memory for upgrades and future enhancements.
- Integrated Secure Access Firewall option

Max 200Plus Competitive Advantages

Low cost, easy to manage

- Lowest base price in industry
- Expand with standard, low-cost PCMCIA cards
- Hot-swappable modems and BRI modules
- Remote manageability
- Windows-based GUI interface
- Integrated firewall protection costing a fraction of competitive products

Concurrent analog / digital support

- Analog and digital links in any combination for easy incremental expansion
- Easy migration path from analog to digital communications

Grow with the market leader

- Internet-compatible – 28 of the 39 largest ISPs use Ascend equipment
- Part of a scalable product family providing end-to-end remote access solutions

Competition

| | Ascend MAX 200Plus | Shiva LanRover E Plus | Cisco 2509 | 3COM Access Builder 4000 | Bay Networks/ Xylogics Remote Annex2000 | Livingston Portmaster 2ER |
|----------------------------------------|-----------------------|--------------------------------------|---------------------|---------------------------------------|-----------------------------------------------|---------------------------------|
| Manufacturer's List Price | | | | | | |
| Base Chassis | \$2,400 | \$2,799 | \$3,445 | \$3,495** | \$3,785 | \$2,695 |
| Maximum Modem Configuration | \$4,400 | \$8,999 | \$5,445 | \$4,745 | \$5,785 | \$5,195 |
| Cost Per analog port | \$550 | \$1,125 | \$681 | \$743 | \$723 | \$520 |
| Cost per B Channel | \$525 | \$890 | \$678 | \$874 | \$721 | \$470 |
| Firewall | \$1,000 | \$6,500* – 15,000 | \$9,000 – 40,000 | \$495 – 1,495 | \$3,195 | \$3,195 |
| Features | | | | | | |
| Modem Connection | PCMCIA | ISDN/Serial/ Proprietary V. 34 | External | Integrated modem or ISDN | External | External |
| ISDN Connection | PCMCIA | S/T Interface | External | yes (requires different base unit) | External | External |
| Hot-swappable | Yes | no | no | no | no | no |
| Self-configuring | Yes | yes | no | no | no | no |
| GUI | Yes | yes | no | yes | no | yes |
| Remote Software Download | Yes | yes | yes | yes | no | no |
| Dynamic Bandwidth Allocation (MP, MP+) | Yes | no | no | yes | no | yes (MP) |
| Integrated firewall | Yes | no | no | no | no | no |

* Cost based on number of users

** Base chassis for ISDN systems only

Note: Current as of 8/96. Specifications may change.

Selling against the Competition

Shiva LanRover E+

- Cost per analog and ISDN port is VERY high – twice the MAX 200Plus.
- No standard modems; proprietary and expensive
- External CSU/DSU required
- No transparent bridging support for non-routable protocols
- Requires external NT1
- No flexibility – comes generally preconfigured as all serial, all V.34, or all ISDN
- Shiva's firewall is an OEM, and VERY expensive – not integrated and dynamic

Cisco

- High price
- VERY expensive, stand-alone firewall
- External NT1 for ISDN
- External modems create cable clutter and requires power outlets for each modem
- Requires client software for remote site PCs
- Not part of a scalable remote access product family

Xylogics / Bay Networks Remote Annex 2000

- External modems create cable clutter and requires power outlets for each modem
- No software upgrade capability
- No MP support
- No RADIUS support
- No integrated, dynamic firewall

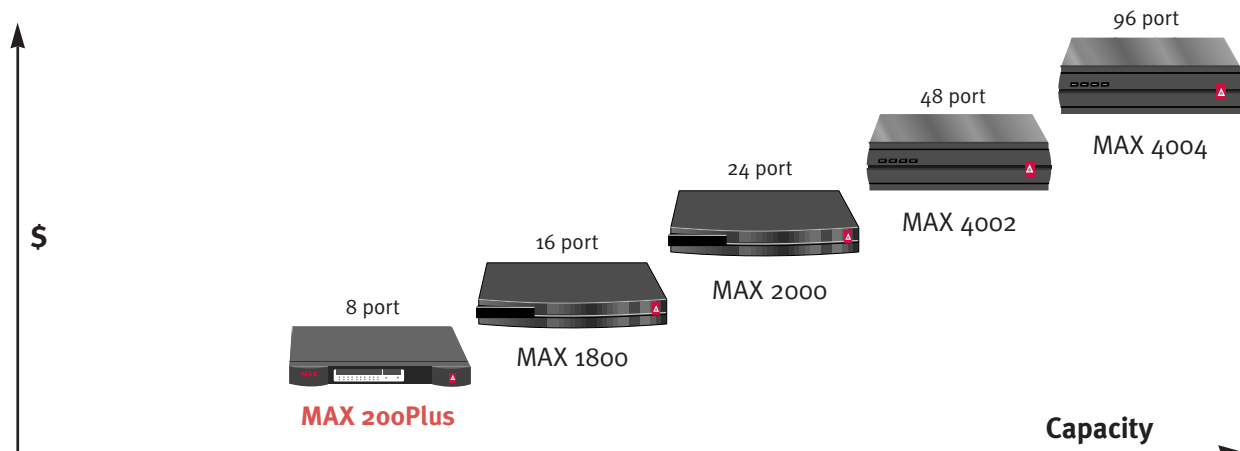
3Com AccessBuilder 4000

- External modems increase clutter and are potential points of failure
- Lacks ISDN support flexibility - must upgrade in groups of 4 from analog to ISDN, Max 200Plus allows it on a port by port basis
- ISDN requires a different base unit
- No RADIUS security support
- No integrated, dynamic firewall support

Livingston PortMaster 2ER

- No data compression
- No software upgrade capability
- No integrated modems
- External modems create cable clutter and requires power outlets for each modem
- Needs external router
- Not part of a scalable product family
- Large chassis footprint. Four MAX 200Plus chassis take less space and provide more ports.
- Firewall solution is less secure - based on static packet filtering compared to Ascend dynamic firewall.

Ascend's MAX Central Site Family



| | MAX 200Plus | MAX 1800 | MAX 2000 | MAX 4002 | MAX 4004 |
|--------------------------|--------------|----------|----------|----------|----------|
| Base Configuration | 8 V.34/4 BRI | 8 BRI | 1 T1/PRI | 2 T1/PRI | 4 T1/PRI |
| Base List Price | \$2,400 | \$6,400 | \$6,500 | \$11,000 | \$15,500 |
| Number of Slots | 8 PCMCIA | 2 | 2 | 6 | 6 |
| Number of Digital Modems | N/A | 16 | 24 | 48 | 72 |
| Number of Analog Modems | 8 | - | - | - | - |

Part Numbers

| MAX 200Plus – PCMCIA Modem/ISDN WAN Access Switch | | MSLP |
|---------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| M201-8M-0 | Max 200Plus ISDN/modem WAN Access Switch, 8PCMCIA slots, client and dial-out s/w included | \$2,400 |
| M201-SL-BRIU | ISDN BRI U Interface PCMCIA card includes NT1 and network cables | \$495 |
| M201-SL-BRIS | ISDN BRI S Interface PCMCIA card and network cables, no NT1 | \$495 |
| M201 -4BRIU | Max 200Plus, four BRI U interface PCMCIA cards includes NT1's and network cables | \$4,200 |
| M201 -4BRIS | Max 200Plus, four BRI S interface PCMCIA cards includes network cables, no NT1 | \$4,200 |
| M201-SWUP-ASA | Secure Access Firewall for Max 200Plus | \$1000 |

For pricing, availability and information on Ascend's demo program please call your Distribution Partner.

Why Partner with Ascend?

- **Market leadership** – enhanced name recognition and credibility with your customers
- **54% dominance of the access concentrator market** (analog & ISDN ports)*
- **84% of total ISP access server parts worldwide**
- **Ensured Internet interoperability** – 28 of 30 largest ISPs use the MAX, ensuring end-user compatibility, shortening VAR sales cycle, and reducing support demands
- **Technology leadership** – more remote access features than any other vendor
- **Complete remote networking solution** with over 60 remote and central site products to fit every need

* Source: Dell' Oro Market Research Group, 1996



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