

MultiCom LAN Access Center

*For secure & modular dial-up central sites
for remote access*

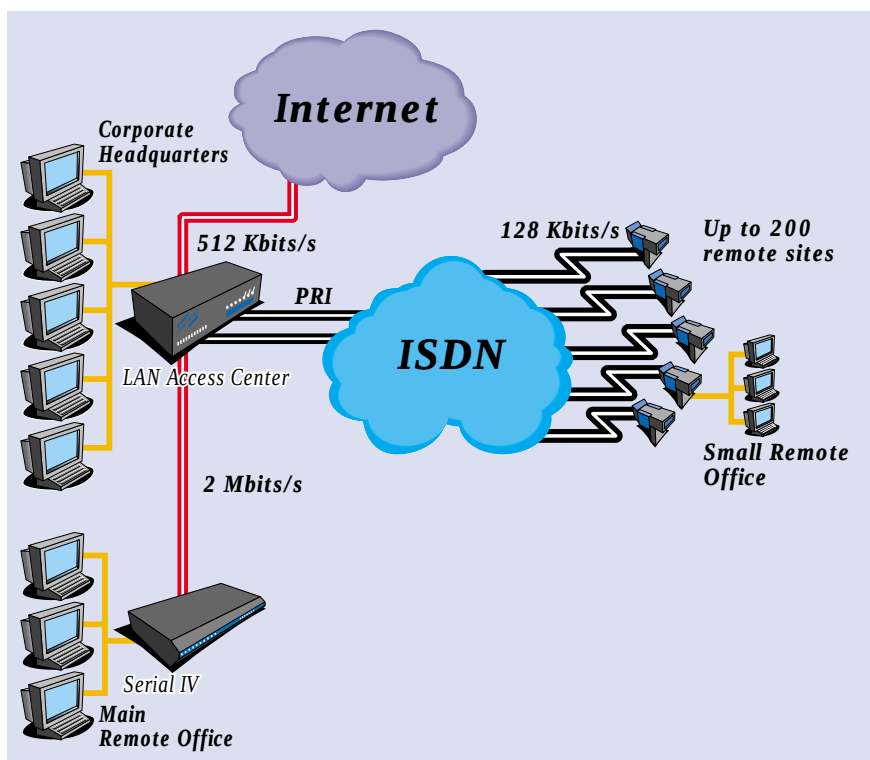


The **MultiCom LAN Access Center** delivers fully secure network connectivity for remote workgroups and for remote users.

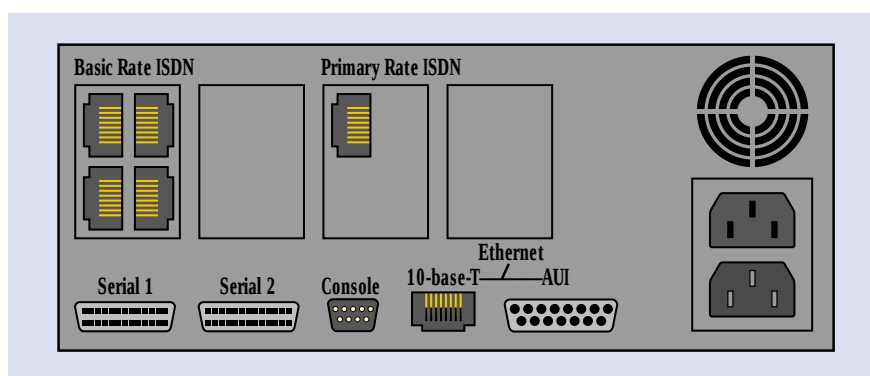
The MultiCom LAN Access Center is a **modular central-site multiprotocol router and bridge** for remote network access. It routes TCP/IP and Novell™ SPX/IPX, while bridging other protocols. Up to 200 remote locations can be served via ISDN and leased lines.

This 19" rack-mountable unit includes three ports: one Ethernet and two leased line serial interfaces (up to 2 Mbits/s each). Four expansion slots accept various boards, including multiple ISDN BRI or PRI.

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- **Standard Software features:** page 15
 - **Ordering information & news:** www.lightning.ch/products/lac.html
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Large Corporate Access Center



Back side (Select Basic Rate ISDN or Primary Rate ISDN)

Dimensions	19"x3Ux24cm
Weight	6,8 kg
Ethernet	10-base-T RJ45 or AUI IEEE 802.3 10 Mbits/s
Serial	EIA 530 alt A (V.35, X.21 with cable)
	Speed 64 Kbits/s - 2 Mbits/s synchronous
Expansion	4 slots, accomodating up to:
	1-3 modules with 4 S₀ ISDN BRI - BRI RJ45, 2 x 64 Kbits/s each - or 1-2 modules with 1 S_{2m} ISDN PRI - 30 x 64 Kbits/s
Console	RS232 DB-9
Display	Ethernet, 2 Serial, 4 Slots, Power
Power	100/230 V; 80W; 50/60 Hz
Temperature	5° to 40° C
Humidity	10 % to 85 % non-condensing

Highlights

- Expandable up to 60 ISDN B-channels
- Two leased line synchronous serial ports at up to 2 Mbits/s
- Never Busy Line, handling up to 200 remote sites, depending on configuration complexity and available memory
- High Security level and 128 bit key encryption option
- Efficient dial-in center thanks to consistent dynamic IP and DNS allocation
- Compatible with NAT

Standard Software Features

All LIGHTNING Multicom routers presented here share the same set of software features, and even the same user interface.

Internet & Remote Access

- AutoConfiguration™ via a Web-browser, for router and computers
- Connects all (or selected) local users to the Internet
- Port & Address Translation (NAT/PAT) enables multiple users to access the Internet simultaneously while paying only for one Single Internet User Account
- Allows remote users to dial into your local network
- Intelligent dynamic IP allocation on the server side makes it compatible with NAT/PAT
- DHCP Server automatically assigns IP configuration to Windows 95/98/NT, Apple Macintosh and UNIX clients on the LAN
- Works with any PC computer, Macintosh or Unix with an Ethernet interface that runs TCP/IP. DHCP addressing is preferred but not necessary
- Compatibility tested with all other major ISDN routers and boards
- Allows simultaneous Internet access and direct Intranet access for teleworking
- ISDN and leased lines guarantee high throughput that is not affected by marginal line quality
- ISDN and PPP call-back allows hosting services without a dedicated leased-line while being always reachable

Never Busy Line™

- Allows pseudo-simultaneous connections to multiple locations (100 for Pocket and Classic, 200 for LAN Access Center and Series IV) thanks to Time Multiplexing
- Calls can be answered even when all B-channels are busy
- High-priority users can get and keep a channel while others are swapped out

LAN-to-LAN connectivity

- Multi-protocol routing: IP and Novell™ IPX
- Transparent bridging
- Static and dynamic addressing
- Supports RIP and SAP for IPX
- IPX spoofing for RIP, SAP, SPX, serial and keep-alives saves ISDN connection costs
- Dial-on-Demand routing, which dials the ISDN line only when it is needed and then automatically takes the connection down when idle
- Automatic time-out disconnects the router when there is no traffic

Protocols and Compression

- Bandwidth-on-Demand provides flexible bandwidth when needed, including leased-line overflow over ISDN
- PPP/MP (for channel bundling)
- Dynamic DNS configuration over PPP
- Automatic leased-line backup over ISDN
- Supports standard Hi/fn™ Stac LZS® data compression
- Easy configuration and network management thanks to dynamic addressing of the MultiCom and remote workstations

Network Management

- Built-in Web-Based Management, providing platform-independent Graphical User Interface
- Local console and remote management via Telnet, FTP and HTTP
- Event-driven management with Syslog messages for leased-line failures and security break-in attempts
- SNMP v1 agent with multiple hosts
- EasyConfig™ wizard for Windows 95/98/NT
- Flash EPROM for easy firmware upgrades, locally and remotely
- Call Detail Records for efficient tracking of incoming and outgoing calls
- Easy troubleshooting thanks to detailed PPP status and tracking of line-opening packets

Standard Security Features

- Password-protected System Management
- PAP (Password Authentication Protocol)
- CHAP (Challenge Handshake Authentication Protocol) with periodical challenge
- CLI (Calling Line ID)
- PPP call-back with password protection
- ISDN call-back allows hosting services without a dedicated leased-line while being always reachable
- Firewall filtering for controlled access to your network with SecureWall™
- Multiple ISDN Closed User Group (CUG) support
- Selective IP Address Routing

Optional Strong Encryption

- Swiss Made - No export restrictions
- Link-level data encryption for point-to-point connections, including backup links
- Router-level data encryption for Virtual Private Networks
- IDEA™ 128 bit key algorithm conforming to highest security standards
- DES (40-bit and 56-bit key) standard algorithm
- Triple-DES (112-bit and 168-bit key) enhanced algorithm
- Visual Security Display
- Separate management of keys and network configuration

ISDN Network Compatibility

- For Worldwide use: EuroISDN, INS-NET64 and NI-2
- ISDN PRI (Primary Rate Interface) S2_m - 64 kbits/s D-channel + 30•64 kbits/s B-channels
- ISDN BRI (Basic Rate Interface) S₀ - 16 kbits/s D-channel + 2•64 kbits/s B-channels
- Leased-ISDN support (D64S, D64S2, TS01, TS02, SD64, HSD128)
- DDI and MSN modes
- Static and dynamic TEI

For the latest features-list, please see:
<http://www.lightning.ch/features.html>



Windows 95/98/NT



Year 2000
compliant





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