

MultiCom *Series IV*

Fast and secure Network Connectivity

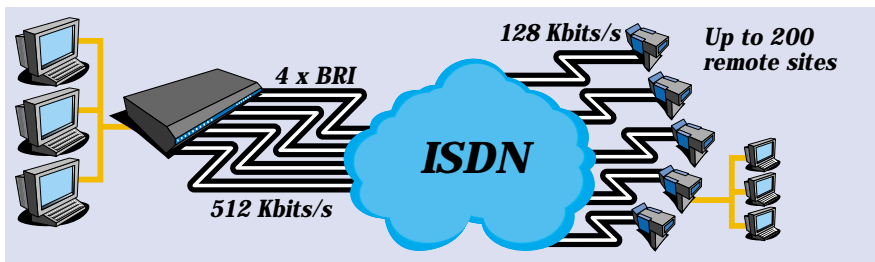


The **MultiCom Access IV** delivers fully secure network dial-in and dial-out ISDN connectivity for remote workgroups and single remote users.

The **MultiCom Serial IV** delivers fast and secure network connectivity through synchronous leased lines.

The **MultiCom Backup IV** is the solution for secure high-speed backup of leased lines and remote ISDN access.

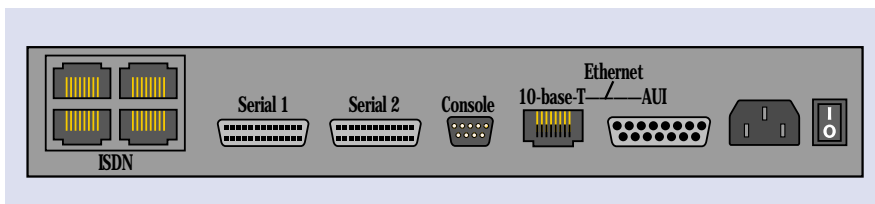
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- **Standard Software features:** page 15
 - **Ordering information & news:** www.lightning.ch/products/accessiv.html
 - **Ordering information & news:** www.lightning.ch/products/serialiv.html
 - **Ordering information & news:** www.lightning.ch/products/backupiv.html
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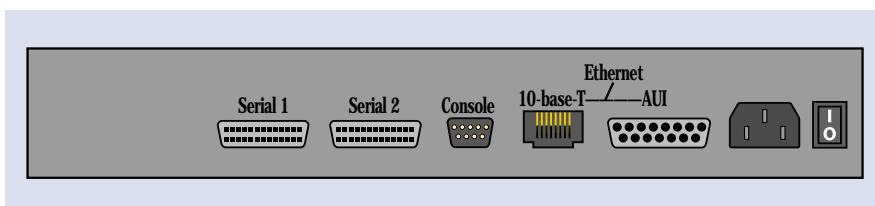
Access IV: Small Point Of Presence (POP) for Tele-working



Backup IV: Secure High-speed Backup and Overflow



Back side of MultiCom Access IV and Backup IV



Back side of MultiCom Serial IV

	<i>Access IV</i>	<i>Serial IV</i>	<i>Backup IV</i>
Dimensions	19"x1Ux24cm	19"x1Ux24cm	19"x1Ux24cm
Weight	3,1 kg	2,9 kg	3,1 kg
Ethernet	10-base-T RJ45 or AUI IEEE 802.3 10 Mbits/s	10-base-T RJ45 or AUI IEEE 802.3 10 Mbits/s	10-base-T RJ45 or AUI IEEE 802.3 10 Mbits/s
Serial	Upgradable to Backup IV	EIA 530 alt A (V.35, X.21 with cable) Speed up to 2 Mbits/s	EIA 530 alt A (V.35, X.21 with cable) Speed up to 2 Mbits/s
ISDN	4x BRI RJ45 DDI S ₀ 8x 64 Kbits/s = 512 kbits/s	Not upgradable	4x BRI RJ45 DDI S ₀ 8x 64 Kbits/s = 512 kbits/s
Console	RS232 DB-9	RS232 DB-9	RS232 DB-9
Display	Ethernet, 2 Serial, 4 ISDN D+2B, Power	Ethernet, 2 Serial, Power	Ethernet, 2 Serial, 4 ISDN D+2B, Power
Power	100/230 V; 40W; 50/60 Hz	100/230 V; 40W; 50/60 Hz	100/230 V; 40W; 50/60 Hz
Temperature	5° to 40° C	5° to 40° C	5° to 40° C
Humidity	10 % to 85 % non-condensing	10 % to 85 % non-condensing	10 % to 85 % non-condensing
Noise	Noiseless	Noiseless	Noiseless

- Efficient dial-in center thanks to consistent dynamic IP and DNS allocation
- Never Busy ISDN Line, handling up to 200 remote sites, depending on configuration complexity and available memory
- High Security level and 128 bit key encryption option
- For high-speed backup of leased lines
- For secure Tele-working



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





LIGHTNING Instrumentation SA
Avenue des Boveresses 50 • CH-1010 Lausanne • Switzerland
Phone +41 21/ 654 2000 • Fax +41 21/ 654 2001
E-mail: info@lightning.ch • Web: www.lightning.ch

Appointed distributors

Austria

HIGHSPEED Cabling Handels- und Vertriebsges.m.b.H.
Industriezentrum NÖ-Süd - Strasse 1 Objekt Nr. 50
2351 Wiener-Neudorf
Phone: +43 / 22 36 62 360 0
Fax: +43 / 22 36 62 360 136
<http://www.highspeed-cabling.at/hsc/>

Belgium

Alfa Systems N. V.
Mechelseweg 24
2811 Hombeek
Phone: +32 / 15 45 11 60
Fax: +32 / 15 45 11 65
<http://www.alfasys.be>

Denmark

Alco Company
Abrinken 28
7700 Thisted
Phone: +45 / 9791 1470
Fax: +45 / 9791 1471
<http://www.alco.dk>
Digitus Danmark ApS. CED Distributor DataReady ApS
Norregate 78
9870 Sindal
Phone: +45 / 96 78 04 41
Fax: +45 / 96 78 04 42
<http://www.digitus.dk>
NetDesign A/S
Garmmelegårdsvej 91
3520 Farum
Phone: +45 / 44 39 00 00
Fax: +45 / 44 39 00 01
<http://www.netdesign.dk>

Germany

Comtes GmbH
Osterdeich 110/112
28205 Bremen
Phone: +49 / 421 49 99 20
Fax: +49 / 421 49 99 280
<http://www.comtes.net>
Novocomp Datensysteme GmbH
Walramsneustrasse 9
54290 Irler
Phone: +49 / 65 14 22 44
Fax: +49 / 65 14 22 40
<http://www.novocomp.de>

Finland

WESTHILL Oy
P.O.B. 33, (Lähteranta 3P)
02941 Espoo
Phone: +358 / 9 512 32 60
Fax: +358 / 9 512 32 6 27
<http://www.westhill.fi>

France & Monaco

TechniLand
27, rue Pierre Delore
69008 Lyon
Phone: +33 / 4 72 72 01 46
Fax: +33 / 4 72 71 46 66
<http://www.techniland.fr>

Iceland

Digital á Íslandi ehf.
Skeifan 17
108 Reykjavík
Phone: +354 / 53 35 050
Fax: +354 / 53 35 060
<http://www.digital.is>

Israel

BATM International H.Q.
22 Hamelaha St., Bldg. 4
P.O.B. 11387
48091 Rosh Ha'ayn
Phone: +972 / 3 938 69 58
Fax: +972 / 3 938 68 96
<http://www.batm.co.il>

Italy

Siemens Nixdorf Technologies SRL
Via nuova ponente 1/A-B
41012 Carpi
Phone: +39 / 059 63 77 11
Fax: +39 / 059 63 77 22
<http://www.siemens.it>

Korea

Daesin Computer
& Communications Co. Ltd
Young Hwa Bldg
193-8 Youn Hee-Dong Seo Dae Mun-Gu
Seoul
Phone: +82 / 2 322 4141
Fax: +82 / 2 322 2900
<http://www.daesincomm.co.kr>

Macedonia

Gord Systems C.O.
F. Ruzvelt 6/Gal 6
91000 Skopje
Phone: +389 / 91 233 419
Fax: +389 / 91 234 805
<http://www.gord.com.mk>

Norway

MCOM AS
Enebakkeveien 275
1187 Oslo
Phone: +47 / 22 78 27 90
Fax: +47 / 22 78 27 01
<http://www.mcom.no>

Philippines

Exmart (phils) Technique, Inc.
Suite 301, Matheus. Bldg
Gen. Luna St. Makati City
1210 Philippines
Phone: +63 / 2 750 48 85
Fax: +63 / 2 896 9430

Poland

Cellco Communications SP. Zo.o.
Ul. Zamiejska 12
70-832 Szczecin Dabie
Phone: +48 / 91 469 34 35
Fax: +48 / 91 469 34 36
<http://www.cellco.com.pl>

Portugal

ENAFER Lda
Quinta D. João, lote 1r/c esq.
3030 Coimbra
Phone: +351 / 39 404561
Fax: +351 / 39 40 45 49
<http://www.enafer.pt>

Singapore

Energy Technology Pte. Ltd.
65A Jalan Terentang 07-12
328958 Singapore
Phone: +65 / 256 1152
Fax: +65 / 256 7715

Spain

Netecsa
C/ Hostal, 9
17248 S'Agaró/Girona
Phone: +34 / 972 82 14 09
Fax: +34 / 972 32 55 13
<http://www.netecsa.com>

Sweden

DataNät AB
Box 532 - Rallarvägen 17B
184 25 Akersberga
Phone: +46 / 8 544 10 600
Fax: +46 / 8 544 10 644
<http://www.datanat.se>

Switzerland & Liechtenstein

Commcare AG
Turmstrasse 8 Gaswerk Nord
8952 Schlieren
Phone: +41 / 1 738 61 11
Fax: +41 / 1 738 61 10
<http://www.commcare.ch>
INS Drahtex Datacom SA
Chemin des Dailles 10
1053 Cugy
Phone: +41 / 21 732 10 35
Fax: +41 / 21 732 11 08
<http://www.drahtex-datacom.ch>

Swisscom AG

Viktoriastrasse 21
3030 Berne
Phone: 0800 80 80 22
<http://www.swisscom.com>

Taiwan, Republic of China

MacSUNG Industrial Inc.
1F, 15, Alley 4, Lane 137 Sec. 5, Ming Sheng E, RD.
Taipei
Phone: +886 / 2 2753 2900
Fax: +886 / 2 2765 5086
<http://203.74.95.161>

The Netherlands

DDN (Dacom DistriNet)
Bongerd 6a
7642 DA Wierden
Phone: +31 / 546 58 00 58
Fax: +31 / 546 58 00 59
<http://www.ddn.nl>

TOP IT

Birkstraat 108, Soest - Postbus 3025
3760 DA Soest
Phone: +31 / 35 603 82 82
Fax: +31 / 35 603 82 83
<http://www.top-it.nl>

United Kingdom

The Electronic Frontier Ltd
3 Bacchus House - Callea Park
RG7 8EN Aldermaston Berkshire
Phone: +44 / 11 89 81 06 00
Fax: +44 / 11 89 81 16 00
<http://www.elecfron.com>

Yugoslavia

Inter Light
Esad Pasina 3
11000 Beograd
Phone: +381 / 11 461 204
Fax: +381 / 11 473 640

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our web server:
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