ELSA MicroLink™ Cable

The Ultimate Solution for High-Speed Internet Access

The cable modem *ELSA MicroLink Cable* now lets you use the gigantic data-transfer capacities of cable TV networks for the ultimate Internet access. Up to 100 times faster that normal modems, even the most complex web sites are loaded onto your screen within seconds; films, videos or music titles arrive on your home PC in real time. Instead of having to dial-in to an Internet provider, you just switch on and you're online. And those connection charges ticking away in the background are also a thing of the past: you pay just as you do for your TV services—attractive fixed prices.

- External cable modem for Internet access via the cable TV network
- Interface to computer: Ethernet network card (10Base-T)
- Supports the operating systems Windows 95, Windows 98, Windows NT, Macintosh, Linux and any system supporting TCP/IP
- Downstream data rates (from cable provider) up to 43 Mbps
- Upstream data rates (to cable provider) up to 10 Mbps
- Secure transmission of user data with encryption
- Plug&play installation: connect with PC, connect with cable network, go!

LAN interface	Ethernet IEEE 802.3, 10BASE-	T (twisted pair, RJ45, node/hub switch)
Cable TV interface	MCNS DOCSIS (ITU-T J.112, Physical Layer according to Annex A & Annex B, MAC according to	
	Annex B)	, ,
	Connector	F connector (IEC169-2-connection with included adapter)
	Downstream trans. Band	88–860 MHz
	Downstream channel width	6 MHz or 8 MHz
	Receive level	48–78 dBμV
	Downstream modulations	64QAM, 256QAM
	Downstream data rates	30.34 Mbps (64QAM), 42.88 Mbps (256QAM)
	Downstream signal noise	> 21 dB (64 QAM)
	ratio	> 28 dB (256 QAM)
	Upstream trans. Band	5–42 MHz (5–65 MHz optional)
	Upstream channel width	200–3200 kHz
	Transmit level	85–122 dBμV
	Upstream modulations	QPSK, 16QAM
	Upstream data rates	0.32–5.12 Mbps (QPSK), 0.64–10.24 Mbps (16QAM)
	Upstream signal noise ratio	> 14 dB (Burst QPSK)
		> 20 dB (Burst 16QAM)
Network protocols	Bridge mode	Bridging of all IEEE 802.3-based protocols
	IP router	IP, TCP, ICMP, ARP, RIP-1, RIP-2, PROXY ARP, DHCP
Filtering	Bridge mode	Broadcast, multicast, target MAC addresses, source MAC
		addresses, automatic filtering of local and remote stations
	IP router	TCP, UDP port filtering, source and target net filtering
IP masquerading	Internet access with one IP number through address and port translation, static addressing or	
(NAT/PAT)	dynamic assignment of IP numbers over DHCP, masquerading for TCP, UDP, ICMP and FTP, DNS	
	forwarding, inverse masquerading for IP services from within an Intranet	
Management	Network Operators	Via SNMP and TFTP (upload of configuration files and firmware
		updates)
	User	Via cable TV network or LAN with TCP/IP, password protection,
		ELSA LANconfig, SNMP, TFTP, Telnet
Display/operation	LEDs for Ethernet and cable TV network status, factory default key, reset key	
Power supply	12 V AC with power adapter for 230 V (US version: 110V), 10 VA	
Environment	Temperature: 540°C, humidity: 080%, non-condensing	
Design/dimensions	Robust metal housing, LEDs on the front side, connectors on the rear side,	
	dimensions 158 x 32 x 135 mm (W x H x D)	
Package includes	Accessories	External power adapter, F-to-IEC169-2-adapter, cable TV network
	2 6	connection cable, 10Base-T cable
	Software	Configuration Tool <i>ELSA LANconfig</i> , TFTP client
	Documentation	Comprehensive manual and <i>ELSA Cable Modem</i> CD
•	Installation Guide	Dutch, English, French, German, Italian and Spanish
Service	Warranty	6 years
14 N -	Support	Via hotline and Internet
Item No.	0204	



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