

# **WS/DSL/I-10+**

*Router/Firewall  
with ISDN*



## **Professional High-speed Internet Access Router for DSL and other broadband services**

- Dial Backup, Remote Access and Remote Maintenance
- Stateful Inspection Firewall and QoS Bandwidth Management
- Load Balancing for up to 3 Broadband Lines
- Integrated ISDN and CAPI Server
- Load Balancing with up to 2 WAN broadband services
- Analog / GSM/GPRS Modem via COM Port

The LANCOM DSL/I-10+ Internet access router enables local networks to be quickly and easily connected to arbitrary high-speed Internet access lines. It provides a powerful solution for an optimal Internet access of small and medium-sized enterprises. Extensive Firewall, Security and Backup functions ensure a safe operation of the local network.

### **Office Communication included.**

The device offers remote management, dial-in (RAS) and dial-backup services. Additionally, the ISDN LANCAPI provides Fax and Eurofile transfer for all connected workstations. Thanks to bandwidth management and individually separatable switch ports, your office is well-prepared for VoIP and server operation. As your business grows, the integrated Load Balancer allows to integrate further broadband lines easily.

### **Powerful – with Security.**

Its professional characteristics is determined by a state of the art Firewall with Stateful Inspection, Intrusion Detection and Denial of Service protection, detailed Accounting and Monitoring functions, as well as scheduled Access Control for all workstations. High Availability can be ensured by ISDN, analog or GSM/GRPS modem or further broadband lines.

### **Easy Configuration – anytime.**

Comfortable installation wizards with preset forms for almost all access provider ensure a quick self-installation. The provided toolset, LANconfig and LANmonitor, allow professional management and monitoring of all relevant parameters and device states. Larger installations are supported with rollout mechanisms and features like multiple administrative accounts.

# Wireless & Security

## WS/DSL/I-10+ SPECIFICATIONS

<b>Modes</b>	Multi protocol router	IP, IPX and NetBIOS/IP router, HTTPS server (WEBconfig), DNS client, DNS server, DNS relay, DHCP client, DHCP relay and DHCP server incl. autodetection, Dynamic DNS client, NTP client, SNTP server. Load balancing of multiple WAN connections. Policy-based routing based on routing tags, tagging with firewall rules, dynamic routing with RIPv2
	Load balancing	Automatic load balancing on up to 2 WAN connections, ML-PPP support
<b>Interfaces</b>	LAN	3 x Ethernet IEEE 802.3, 10/100Base-T (RJ 45, auto-crossover), auto-sensing, full duplex. LAN ports are individually separatable, e.g. for distinct DMZ or additional WAN interfaces
	WAN	1 x Ethernet IEEE 802.3, 10/100Base-T (RJ 45)
	ISDN	ISDN S0 bus, point-to-point and point-to-multipoint configuration, I.430
	COM / Serial	V.24 / V.28 Port (mini DIN) for out-of-band configuration, optional for ext. modem
<b>Firewall</b>	Stateful inspection, IP packet filter with port ranges. Policy-based routing, triggering for bandwidth management accomplished by Firewall rules, very detailed settings and alarm functions possible	
<b>Quality of Service</b>	IP traffic shaping/limiting with dynamic, absolute or per connection transfer limits or guaranteed minimum bandwidths, assignable to arbitrary applications, e.g. VoIP. Adjustable up/downlink speeds, TOS or DiffServ priority queuing.	
<b>Security</b>	Intrusion detection (IP spoofing, login attempt, port scans), denial of service protection (fragmentation error, SYNflooding, automatic closing of ports/connections). DNS hitlist as well as wild card filter (URL blocking). High availability with dial backup for Internet access or VPN connections. Email alerting, SNMP traps, LED signals and SYSLOG. PAP, CHAP and MS-CHAP as PPP authentication, password-protected configuration remote access per interface, access control list (IP, MAC and protocol filter) for configuration access and LANCAP, ISDN remote access list. FirmSafe with two firmware versions for absolute secure software upgrades, thief protection with ISDN local verification	
<b>Protocols</b>	IP:	ARP, Proxy ARP, IP, ICMP, UDP, TCP, TFTP client & server, RIP-1, RIP-2, DHCP, DNS, SNMP, HTTP, HTTPS, BOOTP, NTP, NetBIOS, RADIUS, LANCAP
	IPX:	RIP, SAP, IPX and SPX watchdogs, NetBIOS watchdogs
	WAN:	Plain Ethernet, DHCP, RIP, PPPoE / Multi PPPoE and PPTP
	ISDN D channel:	1TR6, DSS1 (Euro ISDN), autosensing
	ISDN B channel:	PPP (asynchronous/synchronous), X.75, HDLC, MLPPP for channel bundling, V.110/GSM/HSCSD, CAPI 2.0 over LANCAP, stac data compression
<b>IP masquerading (NAT/PAT)</b>	IP address and port translation over a single IP address, static/dynamic IP address assignment, masquerading of TCP, UDP, ICMP, FTP, H.323, PPTP and IPSec (VPN pass-through). Inverse masquerading for IP services from the Intranet (exposed host). Port mapping, N:N address mapping, 2 distinct local area IP networks, each with or without NAT	
<b>Management</b>	Out-of-band	Command line interface, serial V.24/V.28 port (8-pin mini DIN)
	Inband	LANconfig incl. setup wizards for Internet access, security, firewall, remote access and LAN-LAN coupling; LANmonitor status display; remote maintenance via ISDN or modem; RADIUS user management for dial-in (PPP/PPTP and ISDN CLIP); Telnet, Telnet/SSL, browser (HTTP/HTTPS), SSH and TFTP configuration as well as firmware upload; SNMP management via SNMP V2, WAN or LAN access separately activatable; simultaneous remote configuration and management of multiple devices with LANconfig, supervisor alarms via SNMP traps, SYSLOG and eMail; scheduled events of all parameters and actions (e.g. firewall filter or connections) via CRON service, individual access rights for up to 16 administrators, internal SYSLOG history. TFTP Client and Server with variable file names (name, MAC/IP address, serial number), scripting function for batch programming of all command line parameters and for transfer of configuration files over different software versions and devices incl. test mode for changing of different parameters
	Tools	LANconfig (Windows configuration program), LANmonitor (Windows status display), WEBconfig (integrated secure web server)
<b>Hardware</b>	Power adapter	12 VA, external power adapter (230 V)
	Environment	Temperature 5–40 °C; humidity 0–80 %; non-condensing
	Housing	158 x 40 x 135 mm (B x H x T), stable metal casing, ports on the back
	Approvals	EU (CE certification: EN 55022, EN 55024, EN 60950)
<b>Item no.</b>	61133	LANCOM DSL/I-10+ (EU power supply)
	61134	LANCOM DSL/I-10+ (UK power supply)
<b>Options</b>	61500	LANCOM Modem Adapter Kit (for external analog or GSM/GPRS modem via COM port)
	00789	LANCOM ISDN Leased Line Option
	61401	LANCOM Service Option (24h replacement, 4 years warranty) - within Germany only!
<b>Accessories</b>	61700	LANCOM LCOS Reference Manual (German edition)
	61600	LANCOM Advanced VPN Client (1 user license, Windows 98SE - XP)
	61601	LANCOM Advanced VPN Client (10 user license, Windows 98SE - XP)
	61602	LANCOM Advanced VPN Client (25 user license, Windows 98SE - XP)