

WS/821 +

*Router/Firewall
with ADSL
Modem & ISDN*



ADSL/ISDN multi protocol router with integrated 4 port switch

- Integrated ADSL modem
- Stateful inspection Firewall
- ISDN backup, RAS and fax services (LANCAPi)
- Multi CPE remote management
- Two local networks on separate LAN ports (true DMZ)
- Load balancing with up to 2 WAN broadband services

The LANCOM 821+ ADSL/ISDN connects your network with DSL speeds to the Internet. Ideally suited for business DSL lines, the LANCOM 821+ ADSL/ISDN integrates up six devices into one: ADSL modem, ISDN adapter, DSL router, firewall and 4 port switch. Therefore, this is one of the most highly integrated products for broadband connections.

Office Communication.

Additionally to the integrated ADSL modem, the ISDN port offers remote management, dial-in (RAS) and dial-backup services. The LANCAPi provides Fax and Eurofile transfer for all connected workstations.

Easy configuration.

Setup wizards with preset forms feature easy self-installation for popular DSL and ISDN providers and for the security configuration. The integrated, intelligent 4 port switch does not require crossover cables – up to four network devices or further switches can be connected directly.

Maximum Security.

A powerful state of the art firewall based on stateful inspection technology features intrusion detection, denial of service protection as well as detailed monitoring, accounting and content filter functions for secure business networking. IP quality of service with dynamic traffic shaping/limiting ensures stable operation of critical applications (e.g. VoIP).

Wireless & Security

WS/821+ SPECIFICATIONS

Modes	Multi protocol router	IP, IPX and NetBIOS/IP router, HTTP /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 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
Ports	ADSL WAN (RJ-11)	Item no. 60912: Deutsche Telekom U-R2 T-DSL, ADSL over ISDN (ITU G.992.1 Annex B), as well as ADSL over ISDN proprietary (Texas Instruments, ADI, Alcatel), ETSI TS 101 388; Item no. 61011: ADSL over POTS (ITU G.992.1 Annex A, ANSI T1.413, ITU G.992.2 (G.Lite), G.994.1 (G.hs)) Automatic detection of ADSL line codes
	ISDN WAN (RJ-45)	ISDN S0 Bus, point-to-point and point-to-multipoint configuration, I.430, (autosensing); D channel 1TR6, DSS1 (Euro-ISDN); B channel PPP (asynchronous/synchronous), X.75, HDLC, MLPPP for channel bundling, CAPI 2.0 via LANCAPI, Stac data compression
	Ethernet LAN (4 x RJ-45)	4 x Ethernet IEEE 802.3 (switch), 10/100Base-T autosensing, node/hub autodetection, port segmentation configurable, e.g. for DMZ mode or 4 separated local networks, connectivity for external modem (e.g. SDSL) or router via switch port (PPPoE/Multi-PPPoE, Plain Ethernet).
Firewall	Stateful inspection, IP packet filter with port ranges; masquerading (NAT/PAT) of TCP, UDP, ICMP, FTP, PPTP, H.323, NetMeeting and IPSec; DNS forwarding; inverse masquerading for IP services from the Intranet such as web server; support of 2 local networks; e.g. DMZ with own Internet address range without NAT, QoS with VoIP priority, Port Mapping	
Quality of Service	IP traffic-shaping/limiting with dynamic, absolute or per connection transfer limits or guaranteed minimum bandwidths, TOS priority queuing.	
Security	Intrusion detection (IP spoofing, login attempt, port scans), denial-of-service protection (fragmentation error, SYNflooding, automatically closing of ports/connections). DNS hitlist as well as wild card filter (URL blocking). High availability with ISDN dial backup for Internet access or VPN connections. Email alerting, SNMP traps 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 LANCAPI, ISDN remote access list. FirmSafe with two firmware versions for absolute secure software upgrades, thief protection with ISDN local verification	
LAN protocols	IP:	ARP, Proxy ARP, IP, ICMP, UDP, TCP, TFTP, RIP-1, RIP-2, DHCP, DNS, SNMP, HTTP, HTTPS BOOTP, NTP, NetBIOS, RADIUS, LANCAPI
	IPX:	RIP, SAP, IPX and SPX watchdogs, NetBIOS watchdogs
WAN protocols	PPPoE/Multi-PPPoE, PPPoA, PPTP, IPoA and Plain Ethernet	
Transmission rates	LAN (max.):	100 Mbps, full duplex operation
Statistics	Counter	Comprehensive ADSL, ATM, Ethernet, IP and DNS statistics; SYSLOG error counter, connecting and online time as well as transfer quantity per station; accounting information exportable via LANmonitor, SYSLOG und email, scheduled event log
Management	Outband	Command-line interface, serial V.24/V.28 port (8-pol. Mini-DIN), , optional for analog, GPRS modem backup
	Inband	LANconfig incl. setup wizard for Internet access, security, firewall, Dynamic DNS, remote access and LAN-LAN coupling, incl. group configuration and WLANmonitor; LANmonitor status display; remote maintenance via ISDN; RADIUS user management for dial in (PPP/PPTP and ISDN CLIP); Telnet, 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 several devices with LANconfig, supervisor alarm via SNMP traps, SYSLOG and eMail; scheduled events of all parameters and actions (e.g. firewall filter or connections) via CRON service, individual access for up to 16 administrators TFTP client and server with variable file names (names, 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 web server)
Hardware	Power adapter	12 VA, external power adapter (230 V)
	Environment	Temperature 5–40 °C; humidity 0–80 %; non-condensing
	Housing	210 x 140 x 45 mm (B x H x T), robust plastic case, ports on the back, prepared for wall mounting, Kensington-style lock
	Approvals	EU (CE certification: EN 55022, EN 55024, EN 60950)