

WS/1721 VPN Access Point



Business VPN router with integrated ADSL2+ modem and ISDN

- Stateful-inspection firewall and dynamic bandwidth management
- VPN gateway with optional VPN hardware accelerator
- Integrated ADSL2+ modem for speeds of up to 24 Mbps
- Optional SIP proxy and SIP gateway functions*

The LANCOM 1721 VPN is a top model of the LANCOM line of highly integrated VPN networking components designed for small-business and managed networks. With standard equipment including 5 VPN channels (25 optional), an integrated ADSL2+ modem, an ISDN interface for backup, remote maintenance and LANcapi applications, four separately controllable switch ports and a USB-2.0 host port, this router offers a complete package with all of the functions necessary for secure connectivity for sites, branch offices or subsidiaries.

More security

The integrated firewall with the latest security functions such as stateful inspection, intrusion prevention and Denial-of-Service protection is supplemented by bandwidth management and high availability from ISDN and VRRP. The integrated VPN gateway that fulfills the IPSec standard provides optimal security for connecting telecommuters and branch offices thanks to the optional hardware accelerator and support of digital certificates.

More professionalism

The management systems LANconfig and LANmonitor are included and offer not only cost-effective remote maintenance of entire installations and highly convenient setup wizards, but also full real-time monitoring and logging. Further, service providers benefit from the broad range of scripting methods and professional access for administrators via SSH, HTTPS, TFTP and ISDN dial-in..

More benefits

The versatile routing functions allow the connection of completely different networks over common infrastructure. Optional SIP proxy and SIP gateway functions offer big savings through the use of existing data connections for voice transmission. The integrated ISDN interface allows remote field installations, dial-up access and CAPI featured functions such as FAX services for all connected PCs. A USB 2.0 host interface is ready for future developments.

Wireless & Security

WS/1721 SPECIFICATIONS

Firewall	Stateful inspection, IP packet filter with port ranges; masquerading (NAT/PAT/Multi-NAT/N:N) of TCP, UDP, ICMP, FTP, PPTP, H.323, NetMeeting IRC 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 IP address range without NAT, port mapping
Quality of Service	Dynamic bandwidth management with IP traffic-shaping/limiting with dynamic, absolute or per connection transfer limits or guaranteed minimum bandwidths, separated from send or receive site, TOS or DiffServ priority queuing, automatic packet size adaptation incl. PMTU adjustment or fragmentation.
Security	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 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 secure software upgrades.
VPN/IPSec	5 IPSec sessions parallel, 25 sessions configurable, optional 25 IPSec sessions parallel incl. 3-DES/AES hardware accelerator, encryption methods: 3-DES (168 bit) and AES (128, 192 and 256 bit) hardware accelerated, Blowfish (128 - 448 bit), CAST (128 bit), MD-5 or SHA-1 Hashes, IKE with Preshared Keys or digital certificate, IKE config mode, redundant gateway operation via dynamic routing (RIPv2 propagation), IPCOMP data compression with deflate and LZS
PKI	X.509 digital certificates, e.g. compatible to Microsoft server / Enterprise server and OpenSSL, upload from PKCS#12-files with HTTPS interface
LANCOM Dynamic VPN	Connection to dynamic IP addresses: transfer of the dynamic IP address via ISDN B or D channel, IKE main mode. Connection from dynamic to static IP addresses: encrypted transfer of the dynamic IP address via ICMP or UDP packet, IKE Main Mode.
Voice over IP Option*	SIP Gateway, SIP Proxy, Direct connection of VoIP terminal equipment, Leased cost router, Telephone-number plan for ISDN dial-in/out and mapping of ISDN MSNs to internal telephone numbers, definition of telephone numbers for SIP clients, outside-line numbers for ISDN, SIP and dial-out, matching of incoming calls to internal groups of numbers, setting of outgoing caller IDs, local calls
Router modes, services and interfaces	IP, IPX and NetBIOS/IP multi protocol router, HTTP and HTTPS server (WEBconfig), DNS client, DNS server, DNS relay, DNS proxy, DHCP client, DHCP relay and DHCP server incl. auto detection, Dynamic DNS client, NTP client, SNTP server, NetBIOS/IP proxy, TFTP-server, SIP-Gateway und SIP-Proxy*, telnet and telnet/SSL, SSH, Policy-based routing based on routing tags, tagging with firewall rules, dynamic routing with RIPv2, VRRP
Load balancing	Automatic load balancing on up to 4 WAN connections, ML-PPP support, line management with Policy-based routing
Backup / Redundancy	DSL, ISDN and analog. Up to 4 redundant WAN connections incl. load balancing. Management from redundant VPN gateways through dynamic routing (RIPv2 propagation). Up to 8 redundant destination addresses per VPN connection. Backup list for connection. Line monitoring with LCP echo monitoring, dead peer detection and up to 4 addresses for ICMP polling.
LAN-Protocols	IP: ARP, Proxy ARP, IP, ICMP, UDP, TCP, SIP, TFTP, RIP-1, RIP-2, VRRP, DHCP, DNS, SNMP, HTTP, HTTPS, BOOTP, NTP/SNTP, NetBIOS, RADIUS, LANCAPI. IPX: RIP, SAP, IPX- and SPX-Watchdogs, NetBIOS Watchdogs
WAN-protocols (Ethernet)	PPPoE, Multi-PPPoE, ML-PPP, PPTP (PAC oder PNS) and Plain Ethernet (with or without DHCP)
WAN-protocols (ISDN)	D channel: 1TR6, DSS1 (Euro-ISDN) B channel: PPP (asynchronous/synchronous), X.75, HDLC, ML PPP for channel bundling, V.110/GSM/HSCSD, CAPI 2.0 via LANCAPI, Stac data compression, optional leased line support for D64, D64S2, D64SY
Interfaces	WAN: U-R2, ADSL over ISDN (ITU G.992.1 Annex B), U-R2, ADSL over ISDN (ITU G.992.5 Annex B) ADSL over POTS (ITU G.992.1 Annex A), ADSL over POTS (ITU G.992.5 Annex A) LAN / DMZ: 4 separable switch ports, 10/100 Mbps Fast Ethernet, up to 3 LAN ports can be used as an additional WAN port ISDN (RJ-45): ISDN S0 bus, COM port (8 pol. Mini DIN): 9.600-115.000 baud, optional for analog/GPRS modem backup
Data rate	IPSec: max. 8 Mbps (AES) and 4 Mbps (3DES), with activated hardware accelerator: max. 18 Mbps (AES, 3-DES)
Management	Outband command line interface, serial V.24/V.28 port (8 pol. mini-DIN) Inband LANconfig (Windows configuration program), incl. setup wizard; LANmonitor (Windows status monitor); WEBconfig (integrated Web server); telnet; SNMP management via SNMP V2; remote maintenance via ISDN or Dynamic DNS; RADIUS user management for dial in (PPP/PPTP and ISDN CLIP); browser (HTTP/HTTPS), SSH, VPN tunnel, WAN or LAN access separately activatable; simultaneous remote configuration and management of several devices with LANconfig/LAN monitor, 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 control for up to 16 administrators 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 program), LANmonitor (Windows status display), WEBconfig (integrated Web-server)

*optional ab LCOS 6.0

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Statistics	Extensive Ethernet, IP and DNS statistics; SYSLOG error counter, connecting and online time as well as transfer quantity per station; accounting information exportable via LANmonitor and SYSLOG	
Diagnosis	Extensive LOG and TRACE mechanism, integrated PING and TRACEROUTE, LANmonitor status, logging-buffer for SYS LOG and firewall events, monitor mode for Ethernet ports	
Hardware	Design without ventilator and with high MTBF, external power adapter (230 V) temperature 5–40 °C; humidity 0–80 %; non-condensing, robust plastic case 210 x 140 x 45 mm (B x H x T), ports on the back, prepared for wall mounting, Kensington-style lock	
Approvals	EU (CE-Zertifizierung: EN 55022, EN 55024, EN 60950)	
Package contents	CD incl. firmware and tools (LANconfig, LANmonitor, LANCAP), printed manual (English, German) Power adapter, cable for outband interface, ISDN connection cable, Ethernet cable , ADSL cable	
Service	Warranty 3 years Support Via Hotline and Internet	
Software	Regular free LCOS, LANconfig, LANmonitor and WLANmonitor updates	
Item no.	61139	LANCOM 1721 VPN (Annex A)
	61140	LANCOM 1721 VPN (Annex B)
	61141	LANCOM 1721 VPN (Annex A), UK
Options	60083	LANCOM VPN 25 option (25 channels incl. VPN HW accelerator and RADIUS user control)
	00789	LANCOM ISDN leased line option (D64S, D64S2, D64SY)
	61401	LANCOM Service Option (advanced replacement, 4 years warranty*)
	61420	LANCOM VoIP Basic Option
	61421	LANCOM VoIP Advanced Option
Accessories	61600	LANCOM Advanced VPN Client for Windows 98SE-XP, single user licence
	61601	LANCOM Advanced VPN Client for Windows 98SE-XP, 10 user licences
	61602	LANCOM Advanced VPN Client for Windows 98SE-XP, 25 user licences
	61500	LANCOM Modem Adapter Kit
	61501	LANCOM 19" Rack Mount Adapter

* This option is only available in Germany.