

For professional telephony and Wi-Fi at Supervectoring connections

Efficient workflows depend on reliable networking, fast and flexible Internet and the reliable operation of communications systems. Reason enough for you to rely on the expert for secure VPN site connectivity, Wi-Fi as per IEEE 802.11ac, and easy All-IP migration. The LANCOM 1793VAW supports VDSL Supervectoring with up to 300 Mbps. Designed for the combined operation of ISDN/analog and VoIP telephony components, it is the ideal router for small and medium-sized enterprises.

- > Integrated VDSL Super Vectoring modem for up to 300 Mbps (backwards compatible with VDSL2 / ADSL2+)
- > Wi-Fi operation either with 5GHz at up to 867 Mbps as per IEEE 802.11ac or with 2.4GHz at up to 300 Mbps as per IEEE 802.11n
- > Continued use of existing ISDN and analog components after migrating to All-IP
- > Telephony features thanks to integrated LANCOM VCM (Voice Call Manager) & SBC (session border controller)
- > 2 x ISDN S0 (TE/NT + NT) for point-to-point or multipoint line configuration, 4x analog (internal) / fax
- > SD-WAN automatic VPN and VLAN configuration via the LANCOM Management Cloud
- > 5 integrated IPSec VPN channels (25 optional)
- > Network virtualization with up to 16 networks on one device (ARF)
- > Security Made in Germany
- > Maximum future compatibility, reliability and security



Support for VDSL Supervectoring

VDSL Supervectoring achieves higher data rates on existing copper lines. Speeds of up to 300 Mbps are possible. The LANCOM 1793VAW offers full Supervectoring support while remaining backwards compatible with VDSL2 and ADSL2+.

Continued use of existing ISDN and analog components

The LANCOM 1793VAW translates between ISDN, analog and VoIP. Along with the latest VoIP equipment, you can continue to operate your existing ISDN and analog components without having to replace them. Even after switching to the new All-IP connection, this cost-saving solution conveniently and professionally integrates your ISDN and analog components. Operating a combination of analog, ISDN and VoIP PBX devices directly at the LANCOM router is also an option.

Professional telephony with the LANCOM VCM (Voice Call Manager)

The LANCOM Voice Call Manager is already integrated into the LANCOM 1793VAW and provides advanced telephony support. It manages all aspects of the telephony and controls all of the PBX components connected to the router. Furthermore, it enables the easy integration of DECT telephones by autoprovisioning with the LANCOM DECT 510 IP base station.

Integrated session border controller

The LANCOM Voice Call Manager provides the functions of a Session Border Controller: This ensures that external (unsecure) and internal (secure) networks are kept separate. Also, voice packets are given preference (Quality of Service) thanks to bandwidth reservation, which ensures a high call quality. In addition, the VCM as a SIP proxy enables the professional management of signaling and voice data for high security in the set up, implementation and teardown of telephone conversations, including any protocol conversion by means of transcoding.

Professional integration of wireless clients

The LANCOM 1793VAW provides 11n and 11ac clients either with fast Wi-Fi up to 867 Mbps with 5 GHz or up to 300 Mbps with 2.4 GHz. This allows the professional integration of wireless clients into networks—ideal for home offices and small businesses, because the router provides optimum Wi-Fi coverage without the need for additional costly hardware.

Professional VPN solution

VPN solutions from LANCOM offer flexible, economical and secure networking of headquarters, subsidiaries, branches, sites and home-office workplaces in small, mid-sized and large enterprises. The LANCOM 1793VAW supports up to 5 simultaneous IPsec VPN channels, with optional upgrades for 25 channels.

Radical simplification of the configuration with SD-WAN

In combination with the LANCOM Management Cloud, the LANCOM 1793VAW opens the way for automated management. The software-defined WAN (SD-WAN) enables the automatic setup of secure VPN connections between sites, including network virtualization and backup across the wide-area network: A few mouse clicks is all it takes to enable the VPN function and select the required VLANs for each site. The laborious configuration of individual tunnel endpoints is no longer required at all.



WLAN product specifications	
Frequency band 2.4 GHz or 5 GHz	2400-2483.5 MHz (ISM) or 5180-5700 MHz (depending on country-specific restrictions)
Data rates IEEE 802.11ac/n	1733 Mbps according to IEEE 802.11ac with MCS9 (fallback to 6,5 Mbps with MCS0). Compatible to IEEE 802.11ac/n/a, IEEE 802.11ac/n IEEE 802.11n/a compatibility mode or pure IEEE 802.11ac, pure IEEE 802.11n, pure IEEE 802.11a moder and data rates selectable
Data rates IEEE 802.11n	300 Mbps according to IEEE 802.11n with MCS15 (fallback to 6,5 Mbps with MCS0). Compatible to IEEE 802.11a/n, IEEE 802.11g/n IEEE 802.11b/g/n or IEEE 802.11b/g compatibility mode or pure IEEE 802.11n, pure IEEE 802.11a, IEEE 802.11g or pure IEEE 802.11 mode and data rates selectable
Data rates IEEE 802.11a/ h	54 Mbps (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection), fully compatible with TPC (adjustable power outpu and DFS (automatic channel selection, radar detection) and data rates selectable
Data rates IEEE 802.11b/g	54 Mbps to IEEE 802.11g (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection) compatible to IEEE 802.11b (11, 5.1 2, 1 Mbps, Automatic Rate Selection), IEEE 802.11b/g compatibility mode or pure IEEE 802.11g or pure IEEE 802.11b and data rate selectable
Range IEEE 802.11ac/n/a/g/b *	Up to 150 m (up to 30 m in buildings)
Output power at radio module, 5 GHz and per transmit chain	IEEE 802.11a/h: +17 dBm @ 54 MBit/s; IEEE 802.11an/ac: +16 dBm @ (MCS7, 20 MHz), +15 dBm @ (MCS7, 40 MHz), +15 dBm (MCS9, 40 MHz), +15 dBm (MCS9, 40/80 MHZ)
Output power at radio module, 2.4 GHz and per transmit chain	IEEE 802.11b/g: +18 dBm @ 54 MBit/s, IEEE 802.11n: +16 dBm @ (MCS7, 20 MHz), +16 dBm @ (MCS7, 40 MHz)
Max. allowed radiation power (EIRP), 5 GHz	IEEE 802.11a/h: Up to 30 dBm / 1000 mW EIRP (depending on national regulations on channel usage and subject to further obligation such as TPC and DFS)
Max. allowed radiation power (EIRP), 2.4 GHz	IEEE 802.11b/g: Up to 20 dBm / 100 mW EIRP (transmission power control according to TPC)
Minimum transmission power	Transmission power reduction in software in 1 dB steps to min. 0.5 dBm
Receiver sensitivity 5 GHz	IEEE 802.11a/h: -80 dBm @ 54 MBit/s, IEEE 802.11an/ac: -75 dBm @ (MCS7, 20/40MHz), -71 dBm @ (MCS9, 20/40 MHz), -68 dBi (MCS9, 80 MHz)
Receiver sensitivity 2.4 GHz	IEEE 802.11b/g: -80 dBm @ 54 MBit/s, IEEE 802.11n: -77 dBm @ (MCS7, 20 MHz), -75 dBm @ (MCS7, 40 MHz)
Radio channels 5 GHz	Up to 26 non-overlapping channels (available channels and further obligations such as automatic DFS dynamic channel selection depending on national regulations)
Radio channels 2.4 GHz	Up to 13 channels, max. 3 non-overlapping (depending on country-specific restrictions)
Multi-SSID	Up to 30 independent WLAN networks
Concurrent WLAN clients	Up to 65 clients (recommended), 128 clients (max.)
*) Note	The effective distances and transmission rates that can be achieved are depending of the onsite RF conditions
Supported WLAN standards	
IEEE standards	IEEE 802.11ac (Wi-Fi 5), IEEE 802.11n (Wi-Fi 4), IEEE 802.11a, IEEE 802.11g, IEEE 802.11b, IEEE 802.11i, IEEE 802.1X, IEEE 802.11 IEEE 802.11r (Fast Roaming), IEEE 802.11w (Protected Management Frames), WME and U-APSD/WMM Power Save as defined in IEE 802.11e, IEEE 802.11h, IEEE 802.11d
Standard IEEE 802.11ac (Wi-Fi 5)	
Supported features	2x2 MIMO, 80 MHz channels, QAM-256
Standard IEEE 802.11n (Wi-Fi 4)	
Supported features	2x2 MIMO, 40 MHz channel, 20/40MHz coexistence mechanisms in the 2.4 GHz band, MAC aggregation, Block Acknowledgemen STBC (Space Time Block Coding), LDPC (Low Density Parity Check), MRC (Maximal Ratio Combining), Short Guard Interval
WLAN operating modes	
Modes	WLAN access point (standalone, WLC or LANCOM Management Cloud managed), WLAN bridge (P2P or P2MP) (standalone or AutoWDS* (standalone, WLC or LANCOM Management Cloud managed), WLAN client mode, transparent WLAN client mode
*) Note	Only in installations with WLAN controller
Security	
Encryption options	WPA3-Personal, IEEE 802.1X (WPA3-Enterprise, WPA2-Enterprise), IEEE 802.11i (WPA2-Personal), Wi-Fi Certified™ WPA2™, WPA WEP, IEEE 802.11w (Protected Management Frames), LEPS-MAC (LANCOM Enhanced Passphrase Security MAC), LEPS-U (LANCOM Enhanced Passphrase Security User)



Security	
Encryption	AES-CCMP AES-GCMP, TKIP, RC4 (only used by WEP)
EAP types (authenticator)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-FAST
RADIUS/EAP-server	User administration MAC-based, rate limiting, passphrases, VLAN user based, authentication of IEEE 802.1X clients via EAP-TLS, EAP-TTLS, EAP-MD5, EAP-GTC, PEAP, MSCHAP or MSCHAPv2
Others	WLAN protocol filters, IP-redirection of any packet received over the WLAN interface, IEEE 802.1X supplicant, background scanning, client detection ("rogue WLAN client detection"), Wireless Intrusion Detection System (WIDS), RADIUS CoA (Change of Authorization)
LANCOM Active Radio Control	
Client Management*	Steering of WLAN clients to the ideal access point
Managed RF Optimization*	Selection of optimal WLAN channels by the administrator
Adaptive Noise Immunity	Better WLAN throughput due to immunity against interferences
Spectral Scan	Monitoring your WLAN for sources of interference
Adaptive RF Optimization	Dynamic selection of the optimal WLAN channel
Airtime Fairness	Improved utilization of the WLAN bandwidth
Adaptive Transmission Power	Automatic adjustment of the transmission power for Wi - Fi backup scenarios
*) Note	Only in installations with WLAN controller
Roaming	
Roaming	IAPP (Inter Access Point Protocol), IEEE 802.11r (Fast Roaming), OKC (Opportunistic Key Caching), Fast Client Roaming (only in operating mode client modus)
Layer 2 features	
VLAN	4.096 IDs based on IEEE 802.1q, dynamic assignment, Q-in-Q tagging
Quality of Service	WME based on IEEE 802.11e, Wi-Fi Certified™ WMM®
Rate limiting	SSID based, WLAN client based
Multicast	IGMP-Snooping, Multicast-to-Unicast-conversion on WLAN interfaces
Protocols	Ethernet over GRE-Tunnel (EoGRE), ARP-Lookup, LLDP, DHCP option 82, IPv6-Router-Advertisement-Snooping, DHCPv6-Snooping, LDRA (Lightweight DHCPv6 Relay Agent), Spanning Tree, Rapid Spanning Tree, ARP, Proxy ARP, BOOTP, DHCP, LACP
Layer 3 features	
Firewall	Stateful inspection firewall including paket filtering, extended port forwarding, N:N IP address mapping, paket tagging, user-defined rules and notifications
Quality of Service	Traffic shaping, bandwidth reservation, DiffServ/TOS, packetsize control, layer-2-in-layer-3 tagging
Security	Intrusion Prevention, IP spoofing, access control lists, Denial of Service protection, detailed settings for handling reassembly, session-recovery, PING, stealth mode and AUTH port, URL blocker, password protection, programmable reset button
PPP authentication mechanisms	PAP, CHAP, MS-CHAP, and MS-CHAPv2
High availability / redundancy	VRRP (Virtual Router Redundancy Protocol), analog/GSM modem backup
Router	IPv4-, IPv6-, NetBIOS/IP multiprotokoll router, IPv4/IPv6 dual stack
Router virtualization	ARF (Advanced Routing and Forwarding) up to separate processing of 16 contexts
IPv4 services	HTTP and HTTPS server for configuration by web interface, DNS client, DNS server, DNS relay, DNS proxy, dynamic DNS client, DHCP client, DHCP relay and DHCP server including autodetection, NetBIOS/IP proxy, NTP client, SNTP server, policy-based routing, Bonjour-Proxy, RADIUS
IPv6 services	HTTP and HTTPS server for configuration by web interface, DHCPv6 client, DHCPv6 server, DHCPv6 relay, DNS client, DNS server, dynamic DNS client, NTP client, SNTP server, Bonjour-Proxy, RADIUS
IPv6 compatible LCOS applications	WEBconfig, HTTP, HTTPS, SSH, Telnet, DNS, TFTP, firewall, RAS dial-in
Dynamic routing protocols	RIPv2, BGPv4, OSPFv2, LISP (Locator/ID Separation Protocol)
IPv4 protocols	DNS, HTTP, HTTPS, ICMP, NTP/SNTP, NetBIOS, PPPoE (server), RADIUS, RADSEC (secure RADIUS), RTP, SNMPv1,v2c,v3, TFTP, TACACS+



Layer 3 features	
IPv6 protocols	NDP, stateless address autoconfiguration (SLAAC), stateful address autoconfiguration (DHCPv6), router advertisements, ICMPv6, DHCPv6, DNS, HTTP, HTTPS, PPPoE, RADIUS, SMTP, NTP, BGP, LISP, Syslog, SNMPv1,v2c,v3
WAN operating mode	VDSL, ADSL1, ADSL2 or ADSL2+ additional with external DSL modem at an ETH port
WAN protocols	PPPoE, Multi-PPPoE, ML-PPP, GRE, EoGRE, PPTP (PAC or PNS), L2TPv2 (LAC or LNS), L2TPv3 with Ethernet-Pseudowire, IPoE (using DHCP or no DHCP), RIP-1, RIP-2, VLAN, IPv6 over PPP (IPv6 and IPv4/IPv6 dual stack session), IP(v6)oE (autokonfiguration, DHCPv6 or static)
Tunneling protocols (IPv4/IPv6)	6to4, 6in4, 6rd (static and over DHCP), Dual Stack Lite (IPv4-in-IPv6-Tunnel)
Security	
Intrusion Prevention	Monitoring and blocking of login attempts and port scans
IP spoofing	Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed
Access control lists	Filtering of IP or MAC addresses and preset protocols for configuration access and LANCAPI
Denial of Service protection	Protection from fragmentation errors and SYN flooding
General	Detailed settings for handling reassembly, PING, stealth mode and AUTH port
URL blocker	Filtering of unwanted URLs based on DNS hitlists and wildcard filters. Extended functionality with Content Filter Option
Password protection	Password-protected configuration access can be set for each interface
Alerts	Alerts via e-mail, SNMP traps and SYSLOG
Authentication mechanisms	PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism
Anti-theft	Anti-theft ISDN site verification over B or D channel (self-initiated call back and blocking)
Adjustable reset button	Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
High availability / redundancy	
VRRP	VRRP (Virtual Router Redundancy Protocol) for backup in case of failure of a device or remote station.
FirmSafe	For completely safe software upgrades thanks to two stored firmware versions, incl. test mode for firmware updates
ISDN backup	In case of failure of the main connection, a backup connection is established over ISDN. Automatic return to the main connection
Analog/GSM modem backup	Optional operation of an analog or GSM modem at the serial interface
Load balancing	Static and dynamic load balancing over up to 4 WAN connections (incl. client binding). Channel bundling with Multilink PPP (if supported by network operator)
VPN redundancy	Backup of VPN connections across different hierarchy levels, e.g. in case of failure of a central VPN concentrator and re-routing to multiple distributed remote sites. Any number of VPN remote sites can be defined (the tunnel limit applies only to active connections). Up to 32 alternative remote stations, each with its own routing tag, can be defined per VPN connection. Automatic selection may be sequential, or dependant on the last connection, or random (VPN load balancing)
Line monitoring	Line monitoring with LCP echo monitoring, dead-peer detection and up to 4 addresses for end-to-end monitoring with ICMP polling
VPN	
IPSec over HTTPS	Enables IPsec VPN based on TCP (at port 443 like HTTPS) which can go through firewalls in networks where e. g. port 500 for IKE is blocked. Suitable for client-to-site connections and site-to-site connections. IPSec over HTTPS is based on the NCP VPN Path Finder technology
Number of VPN tunnels	Max. number of concurrent active IPSec, PPTP (MPPE) and L2TPv2 tunnels: 5 (25 with VPN 25 Option). Unlimited configurable connections. Configuration of all remote sites via one configuration entry when using the RAS user template or Proadaptive VPN.
Hardware accelerator	Integrated hardware accelerator for 3DES/AES encryption and decryption
Realtime clock	Integrated, buffered realtime clock to save the date and time during power failure. Assures timely validation of certificates in any case
Random number generator	Generates real random numbers in hardware, e. g. for improved key generation for certificates immediately after switching-on
1-Click-VPN Client assistant	One click function in LANconfig to create VPN client connections, incl. automatic profile creation for the LANCOM Advanced VPN Client
1-Click-VPN Site-to-Site	Creation of VPN connections between LANCOM routers via drag and drop in LANconfig
IKE, IKEv2	IPSec key exchange with Preshared Key or certificate (RSA signature, digital signature)
Smart Certificate*	Convenient generation of digital X.509 certificates via an own certifaction authority (SCEP-CA) on the webpage or via SCEP.
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VPN	
Certificates	X.509 digital multi-level certificate support, compatible with Microsoft Server / Enterprise Server and OpenSSL. Secure Key Storage protects a private key (PKCS#12) from theft.
Certificate rollout	Automatic creation, rollout and renewal of certificates via SCEP (Simple Certificate Enrollment Protocol) per certificate hierarchy
Certificate revocation lists (CRL)	CRL retrieval via HTTP per certificate hierarchy
OCSP Client	Check X.509 certifications by using OCSP (Online Certificate Status Protocol) in real time as an alternative to CRLs
OCSP Server/Responder*	Offers validity information for certificates created with Smart Certificate via OCSP
XAUTH	XAUTH client for registering LANCOM routers and access points at XAUTH servers incl. IKE-config mode. XAUTH server enables clients to register via XAUTH at LANCOM routers. Connection of the XAUTH server to RADIUS servers provides the central authentication of VPN-access with user name and password. Authentication of VPN-client access via XAUTH and RADIUS connection additionally by OTP token
RAS user template	Configuration of all VPN client connections in IKE ConfigMode via a single configuration entry
Proadaptive VPN	Automated configuration and dynamic creation of all necessary VPN and routing entries based on a default entry for site-to-site connections. Propagation of dynamically learned routes via RIPv2 if required
Algorithms	3DES (168 bit), AES-CBC and -GCM (128, 192 or 256 bit), Blowfish (128 bit), RSA (1024-4096 bit) and CAST (128 bit). OpenSSL implementation with FIPS-140 certified algorithms. MD-5, SHA-1, SHA-256, SHA-384 or SHA-512 hashes
NAT-Traversal	NAT-Traversal (NAT-T) support for VPN over routes without VPN passthrough
IPCOMP	VPN data compression based on Deflate compression for higher IPSec throughput on low-bandwidth connections (must be supported by remote endpoint)
LANCOM Dynamic VPN	Enables VPN connections from or to dynamic IP addresses. The IP address is communicated via ISDN B- or D-channel or with the ICMP or UDP protocol in encrypted form. Dynamic dial-in for remote sites via connection template
Dynamic DNS	Enables the registration of IP addresses with a Dynamic DNS provider in the case that fixed IP addresses are not used for the VPN connection
Specific DNS forwarding	DNS forwarding according to DNS domain, e.g. internal names are translated by proprietary DNS servers in the VPN. External names are translated by Internet DNS servers
IPv4 VPN	Connecting private IPv4 networks
IPv4 VPN over IPv6 WAN	Use of IPv4 VPN over IPv6 WAN connections
IPv6 VPN	Connecting private IPv6 networks
IPv6 VPN over IPv4 WAN	Use of IPv6 VPN over IPv4 WAN connections
Radius	RADIUS authorization and accounting, outsourcing of VPN configurations in external RADIUS server in IKEv2, RADIUS CoA (Change of Authorization)
*)	Only with VPN 25 option
Performance	
Routing-Performance	Data regarding the overall routing performance can be found inside the LANCOM tech paper "Routing-Performance" on www.lancom-systems.com
VoIP	
Number of local subscribers	10 (up to 40 with VoIP +10 Option)
Number of local ISDN subscribers	Up to 2 internal ISDN buses each with 2 parallel channels and each up to 10 telephone numbers
Number of simultaneous VoIP connections	Up to 25 external VoIP connections depending on code conversion, echo canceling and load
Functionality	Hold/Request, Swap, Transfer, Call Forwarding (CFU, CFB, CFNR), number display/suppression (CLIP, CLIR), suppression of second call (Busy on Busy), immediate outgoing line, hunt groups, call diversion, overlap dialing
Hunt groups	Hunt group cascades, Call diversion, simultaneously or sequentially. Automatic forwarding after timeout or when busy/unreachable
Multi login	Registration of several local VoIP terminal devices with the same number/ID.
Call router	Central switching of all incoming and outgoing calls. Number translation by mapping, numeral replacement and number supplementation. Configuration of line and route selection incl. line backup. Routing based on calling and called number, SIP domain and line. Blocking of telephone numbers or blocks of telephone numbers. Inclusion of local subscribers into the number range of an upstream PBX. Supplement/remove line-related prefixes or switchboard numbers.



VoIP	
SIP registrar	Management of local VoIP users/VoIP PBXs, registration at VoIP providers/upstream VoIP PBXs. Service location (SRV) support. Line monitoring for SIP trunk, link, remote gateway and SIP PBX line
SIP proxy	Up to 25 SIP-provider accounts (up to 55 with VoIP +10 Option), up to 4 SIP PBXs incl. line backup. SIP connections from/to internal subscribers, SIP providers and SIP PBXs. Automatic bandwidth management and automatic configuration of the firewall for SIP connections.
SIP gateway	Conversion of analog or ISDN telephone calls to SIP calls, and vice versa. Local ISDN and analog subscribers register as local SIP users, and local ISDN/analog subscribers automatically register as SIP users at upstream SIP PBXs or SIP providers. Number translation between internal numbers and MSN/DDI
SIP trunk	Call switching based on extension numbers to/from VoIP PBXs/VoIP providers (support of the VoIP-DDI functions compliant with ITU-T Q.1912.5). Mapping of entire VoIP telephone number blocks
SIP link	Call switching of any numbers to/from SIP PBXs/SIP providers. Mapping of entire SIP telephone number blocks
Media proxy	Termination and interconnection of multiple media streams. Control of media sessions. IP address and port translation for media stream packets. Connection of parties at media stream level where a call transfer in SIP (REFER) is not possible
Session Border Controller (SBC)	Separation of insecure and secure networks, QoS, management of signaling and voice data, transcoding
Media protocols	RTP, SIPS and SRTP
Supported providers	German Telekom, QSC, Ecotel and Sipgate
ISDN features	Operation at ISDN exchange line or at ISDN extension line of existing PBXs. Provision of exchange lines or extension lines.
Analog features	Internal FXS ports for one analog terminal device each, or as an analog PBX exchange line.
Audio properties	Echo canceling (G.168) with automatic deactivation during fax transmission, automatic adaptive jitter buffer. Inband tone signaling compliant with EU standards and country-specific. Voice encoding with G.711 μ-law/A-law (64 kbps)
SIP-Codec support	SIP only: G.711 μ-law/A-law (64 kbps), G.722, G.723, G.726, G.729, iLBC, PCM (16, 20 und 24 Bit, Mono und Stereo), OPUS, AAC (LC, HE HEv2), MPEG Layer II, ADPCM 4SB. DTMF support (Inband, RFC2833, SIP-INFO)
Fax transmission	Transmisson of fax via SIP on the LAN/WAN side with T.38 or G.711. Conversion of SIP fax with T.38 and break-in/break-out at the outside line to ISDN G.711 with service signalisation. Connection and conversion to SIP T.38 or G.711 for SIP, analog or ISDN fax machines. Compatible to SwyxFax on true G.711 SIP lines.
Auto QoS	Automatic dynamic bandwidth reservation per SIP connection. Voice packet prioritization, DiffServ marking, traffic shaping (incoming/outgoing) and packet-size management of non-prioritized connections compared to VoIP. Independent settings for DiffServ marking of signaling (SIP) and media streams (RTP)
VoIP monitoring	Reporting of Call Data Records (CDR) via SYSLOG or e-mail. Status display of subscribers, lines, and connections. Logging of VoIP Call Manager events in LANmonitor. SYSLOG and TRACE for voice connections. Active monitoring even with SNMP
Autoprovisioning	Automatic network and VoIP integration of LANCOM DECT 510 IP base station
SIP ALG	The SIP ALG (Application Layer Gateway) acts as a proxy for SIP communication. For SIP calls the ALG opens the necessary ports for the corresponding media packets. Automatic address translation (STUN is no longer needed).
Interfaces	
WAN: Ethernet	10/100/1000 Mbps Gigabit Ethernet
WAN: VDSL / ADSL2+	 VDSL2 compliant with ITU G.993.2, profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a, 35b VDSL Supervectoring as per ITU G.993.2 (Annex Q) VDSL2 Vectoring: as per ITU G.993.5 (G.Vector) ADSL2+ over ISDN as per ITU G.992.5 Annex B/J with DPBO, ITU G.992.3/5 and ITU G.992.1 ADSL2+ over POTS as per ITU G.992.5 Annex A/M with DPBO, ITU G.992.3 and ITU.G.992.1 Supports one virtual ATM circuit (VPI, VCI pair) at a time
Ethernet ports	4 individual 10/100/1000 Mbps Ethernet ports; up to 3 ports can be operated as additional WAN ports with load balancing. Ethernet ports can be electrically disabled within LCOS configuration. The ports support energy saving according to IEEE 802.3az
Port configuration	Each Ethernet port can be freely configured (LAN, DMZ, WAN, monitor port, off). LAN ports can be operated as a switch or separately. Additionally, external DSL modems or termination routers can be operated as a WAN port with load balancing and policy-based routing. DMZ ports can be operated with their own IP address range without NAT
USB 2.0 host port	USB 2.0 hi-speed host port for connecting USB printers (USB print server), serial devices (COM port server), USB data storage (FAT file system); bi-directional data exchange is possible



Management and monitoring Management LANCOM Management Cloud, LANconfig, WEBconfig, WLAN controller, LANCOM Layer 2 management (emergency management) Alternative boot configuration, voluntary automatic updates for LCMS and LCOS, individual access and function rights up to 16 administrators, RADIUS and RADSEC user management, remote access (WAN or (W)LAN, access rights (read/write) adjustable seperately), SSL, SSH, HTTPS, Telnet, TFTP, SNMP, HTTP, access rights via TACACS+, scripting, timed control of all parameters and actions through cron job FirmSafe Two stored firmware versions, incl. test mode for firmware updates automatic firmware update configurable automatic checking and installation of firmware updates Monitoring LANCOM Management Cloud, LANmonitor, WLANmonitor Monitoring functions Device SYSLOG, SNMPv1,v2c,v3 incl. SNMP-TRAPS, extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for firewall events	Interfaces	
Serial interface Serial configuration interface / COM port (8 pm Mini-DNI): 9,000 - 115,000 band, solitable for optional connection of analogicPPS moderns. Supports internal COM port server and allows for transparent asynchronous transcriscion of varial draw via TCP Management and monitoring Management (Auricon Management Coud, LANconfig, WEBConfig, WLAN controller, LANCOM Layer 2 management (emergency management) Alternative boot configuration, voluntary automatic updates for LCNS and LCOS, individual access and function rights up to 16 ministrators, RROBIAs of Adoptive, serve management, remote access Wak or WMLAN, access inflate found instructions. RNDs and RADPISC user management, remote access Wak or WMLAN, access inflate found instruction (RNDs). SSL SSR HTHES, Finel, TFIP, SMMP, HTTP, access rights via TACACS+, scripting, timed control of all parameters and actions through complete automatic checking and installation of firmware updates. Monitoring LANCOM Management Coud, LANcomino, WLANmonitor LANCOM Management Coud, Almonitor, WLANmonitor Monitoring functions Internal Logging buffer for fivewall events. Monitoring statistics Extensive Etherner, IP and DNS statistics, SYSLOG error counter, accounting information exportable via LANcominor and SYSLOG, Layer 7 Application Detection including application-centric tracking of statist volune IPerf is a tool for measurements of the bandwidth on IP networks (integrated client and server) SEA-Monitor (ICMP) Performance monitoring of connections SP-WARA SP-WARA — automatic WARA configuration via the LANCOM Management Cloud SP-WARA SP-WARA — automatic WARA configuration via the LANCOM Management Cloud Power supply 1,15 to 5(20 g) Power supply 1,2 V DC, external power adapter (230 V) with beyoned cap to protect against accidentally unplugging Environment Temperature range 0-40° C; humidity 0-95%; non-condensing Robust Systhetic housing, rear connectors, ready for wall mounting, Resington lock; 210 x 45 x 140 mm (W x H x D) Firsts 1, 15 to 60	ISDN	1x ISDN BRI port (NT) and 1x internal/external ISDN port (NT/TE)
moderns. Supports internal COM port sever and allows for transparent apprehanous transmission of serial data via TCP Management and monitroring Management LANCOM Management Cloud, LANconfig. WEB config. WLAN controller, LANCOM Layer 2 management (emergency management) Management functions Alternative boot configuration, voluntary automatic updates for LCMS and LCOS, individual access and function rights up to 16 administrators, RADIUS and KADACS—, scripting, timed control of all parameters and actions through corn job FirmSafe Two stored firmware updates automatic firmware updates automatic firmware updates automatic firmware updates automatic firmware updates LANCOM Management Cloud, LANmonitor, WLANmonitor Monitoring LANCOM Management Cloud, LANmonitor, WLANmonitor Monitoring functions Device SYSLOS, SMMPN JAZCAY and CSMMP-TRAPS, extensive LOG and TRACE options, PINIG and TRACEROUTE for checking connections, internal logging bridier for firewall events Berind Per a to a Loft connection for firmware updates Monitoring statistics Extensive Ethernet, IP and DNS statistics, SYSLOG error counter, accounting information exportable via LANmonitor and SYSLOG, Layer 7 Application Detection including application-centric tracking of traffic volunes Berind Per a to a Loft connections, internal cognitive different including application-centric tracking of traffic volunes SA-Monitor (ICMP) Performance monitoring of connections SD-MAN SD-MAN—automatic WLAN configuration via the LANCOM Management Cloud SD-MAN SD-MAN—automatic WLAN configuration via the LANCOM Management Cloud Marchavare Weight 1,15 files (520 g) Power supply 12 V DC, external power adapter (230 V) with buyenet cap to protect against accidentally unplugging Environment Fernisors of conformity* Elemperature cappe 0 –40° C, humidity 0 –95%; non-condensing Housing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington IsoC; 210 x 45 x 140 mm (W x H x D) Faris 1 allent fan 1 allent fan Power consumption	Analog	4x internal FXS ports (Analog1, Analog2, Analog3, Analog4) each for one analog device
Management (Management Cloud, LANconing, WEExoning, WLAN controller, LANCOM Layer 2 management (emergency management) Management functions Alternative boot configuration, voluntary automatic updates for LCMS and LCOS, individual access and function rights by 10-16 administrators, RADILS and RADISC unemanagement, remove access WANN or Works, access rights redigistable seperative, SSL, SSM, HTTPS, Telnet, TFTP, SSMP, HTTP, access rights via TACACS+, scripting, timed control of all parameters and actions through cronn job Firm Sale Two stored firmware versions, incl. test mode for firmware updates automatic firmware update configurable automatic checking and installation of firmware updates Monitoring LANCOM Management Cloud, LANtmonitor, WLANtmonitor Monitoring functions Device SYSLOG, SNMPH 1/2C/23 Ind. SNMP+TRAPS, extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging before for freewell events Monitoring statistics Extensive Ethemet, IP and DNS statistics, SYSLOG error counter, accounting information exportable via LANtmonitor and SYSLOG, Layer 2 Application Detection including application-centric tracking of traffic volume iPerf is a tool for measurements of the bandwidth on the networks (integrated client and server) SA-Monitor (ICMIP) Performance monitoring of connections SD-WAN SD-WAN — automatic WAN configuration via the LANCOM Management Cloud SD-WAN — SD-WAN — automatic WAN configuration via the LANCOM Management Cloud BANDAN — automatic WAN configuration via the LANCOM Management Cloud BANDAN — automatic WAN configuration via the LANCOM Management Cloud BANDAN — automatic WAN configuration via the LANCOM Management Cloud BANDAN — automatic WAN configuration via the LANCOM Management Cloud BANDAN — automatic WAN configuration via the LANCOM Management Cloud BANDAN — automatic WAN configuration via the LANCOM Management Cloud BANDAN — automatic WAN configuration via the LANCOM Management Cloud BANDAN — automatic WAN configuration via the	Serial interface	Serial configuration interface / COM port (8 pin Mini-DIN): 9,600 - 115,000 baud, suitable for optional connection of analog/GPRS modems. Supports internal COM port server and allows for transparent asynchronous transmission of serial data via TCP
Management functions Alternative boot configuration, voluntary automatic updates for LCMS and LCOS, individual access and function rights up to 16 administrations, PADILS and RADSEC user management, remote access (WANA or (W)LAN, access rights (read/write)) adjustable separately), SS, SSH, HTTP, cacess rights via TACACS+, scripting, timed control of all parameters and actions through cron job Two stored firmware vesions, incl. test mode for firmware updates automatic firmware update Configurable automatic checking and installation of firmware updates Monitoring functions Monitoring functions Device SYSLOS, SMMPH 20,22 and S. MMP-TRAPS, extensive LOG and TRACE options, PING and TRACERDUTE for checking connections, mineral logging buffer for firewall events Monitoring statistics Extensive Ethernet, IP and DNS stallations, SYSLOG error counter, accounting information exportable via LANmonitor and SYSLOG, Layer 7 Application Detection including application-centric tracking of storiftic volume Perf is a tool for measurements of the bandwidth on IP networks (integrated client and server) SD-WIAN SD-WIAN SD-WIAN SD-WIAN SD-WIAN automatic WAN configuration via the LANCOM Management Cloud SD-LAN SD-WIAN SD-WIAN SD-WIAN automatic WAN configuration via the LANCOM Management Cloud SD-WIAN SD-WIAN SD-WIAN SD-WIAN configuration via the LANCOM Management Cloud Mardowre **SD-WIAN SD-WIAN SD-WIAN configuration via the LANCOM Management Cloud **BRACE STANCE STAN	Management and monitoring	
administrators, RADIUS and RADSC user imanagement, remote access (MAN or MVILAN, access rights freed/owned adjustable seperately). \$\$1,558, HTTPS, Telnet, TFTP, SNMP, HTTP, access rights via TACACS+, scripting, timed control of all parameters and actions through cron job Trimsfale Two stored firmware versions, incl. test mode for firmware updates automatic firmware update ALRICOM Management Cloud, LANImonitor, WLANImonitor Monitoring LANICOM Management Cloud, LANImonitor, WLANImonitor Monitoring structions Device SYSLOG, SNMP-17-VZ-v3 and. SNMP-TRAPS, excessive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging butler for firmware levents Monitoring stratistics Extensives Ethernal, and DNSs statistics, SYSLOG error counter, accounting information exportable via LANImonitor and SYSLOG, Layer 2 Application Detection including application-ceronic tracking of traffic volume iPierf Perf is a tool for measurements of the bandwidth on IP networks (integrated client and server) SLA-Monitor (ICMP) Performance monitoring of connections SD-WAAN SD-WAAN - automatic All confliguration via the LANCOM Management Cloud SD-WAAN SD-WAAN - automatic All confliguration via the LANCOM Management Cloud Wardware Weight 1,15 Bis (S20 g) Power supply 12 V DC, external power adaptes (23 0 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0-40° C; humidity 0-95%, non-condensing Mousing Robust synthetic housing, rear connectors, ready for wall mounting, Kersington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power supply 12 V DC, external power adaptes (23 0 V) with bayonet cap to protect against accidentally unplugging Environment Environment Environment Temperature range 0-40° C; humidity 0-95%, non-condensing Mousing Robust synthetic housing, rear connectors, ready for wall mounting, Kersington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power supply 1 va tell EN 60950-1, EN 55022, EN 55024 SGRE W	Management	LANCOM Management Cloud, LANconfig, WEBconfig, WLAN controller, LANCOM Layer 2 management (emergency management)
automatic firmware update Configurable automatic checking and installation of firmware updates Monitoring LANCOM Management Cloud, LANmonitor, WLANmonitor Decice SYSLOS, SMNRPN JAZ, v3 ind. SMNPTRAPS, extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for firewall event. Monitoring statistics Extensive Ethemet, IP and DNS statistics SYSLOG error counter, accounting information exportable via LANmonitor and SYSLOS, Layer 7 Application Detection including application-centric tracking of traffic volume IPerf	Management functions	SSL, SSH, HTTPS, Telnet, TFTP, SNMP, HTTP, access rights via TACACS+, scripting, timed control of all parameters and actions through
Monitoring LANCOM Management Cloud, LANmonitor, WLANmonitor Monitoring functions Device SYSLOG, SNMP-YL ₂ C ₂ V3 incl. SNMP-TRAPS, extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for frievall events Extensive Ethernet, IP and DNS statistics, SYSLOG error counter, accounting information exportable via LANmonitor and SYSLOG, Layer 7 Application Detection including application-centric tracking of traffic volume IPerf I Perf is a tool for measurements of the bandwidth on IP networks (integrated client and server) SLA-Monitor (ICMP) Performance monitoring of connections SD-WLAN SD-WLAN—automatic WLAN configuration via the LANCOM Management Cloud SD-LAN SD-HAN—automatic WAN configuration via the LANCOM Management Cloud SD-WAN—automatic WAN configuration via the LANCOM Management Cloud Hardware Weight 1,15 lbs (520 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0–40° C; humidity 0–95%; non-condensing Housing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt CE EN 60950-1, EN 55022, EN 55024 S GHz WLAN EN 303 28 IPV6 IPV6 Ready Gold Country of Origin Made in Germany *1 Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manaual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable I Ethernet cable, 3 m Cable I SDN cable, 3 m Cable I SDN cable, 3 m Cable I SDN cable (RJ11 to TAE)	FirmSafe	Two stored firmware versions, incl. test mode for firmware updates
Monitoring functions Device SYSLOG, SNMPv1 v2cv3 incl. SNMP-TRAPS, extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for firevall events Monitoring statistics Extensive Ethernet, IP and DNS statistics; SYSLOG error counter, accounting information exportable via LANmonitor and SYSLOG, Layer 7 Application Detection including application-centric tracking of traffic volume iPerf	automatic firmware update	configurable automatic checking and installation of firmware updates
internal logging buffer for firewall events Extensive Ethernet, IP and DNS statistics, SYSLOG error counter, accounting information exportable via LANinonitor and SYSLOG, Layer 7 Application Detection including application-centric tracking of traffic volume iPerf is a tool for measurements of the bandwidth on IP networks (integrated client and server) SLA-Monitor (ICMP) Performance monitoring of connections SD-WILAN SD-WILAN - automatic WILAN configuration via the LANCOM Management Cloud SD-LAN SD-WAN - automatic WILAN configuration via the LANCOM Management Cloud SD-WILAN SD-WAN - automatic WAN configuration via the LANCOM Management Cloud Hardware Weight 1,15 lbs (520 g) Power supply 1,15 lbs (520 g) Power supply 1,2 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0–40° C, humidity 0–95%; non-condensing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 SGHz WILAN EN 301 893 2.4 GHz WILAN EN 303 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable I SDN cable, 3 m Cable I SDN cable, 3 m Cable I SDN cable, 3 m Cable I SDN cable, 3 m (over POTS)	Monitoring	LANCOM Management Cloud, LANmonitor, WLANmonitor
iPerf Perf is a tool for measurements of the bandwidth on IP networks (integrated client and server) SLA-Monitor (ICMP) Performance monitoring of connections SD-WLAN SD-WLAN - automatic WLAN configuration via the LANCOM Management Cloud SD-LAN SD-WAN - automatic LAN configuration via the LANCOM Management Cloud SD-WAN SD-WAN - automatic WAN configuration via the LANCOM Management Cloud SD-WAN SD-WAN - automatic WAN configuration via the LANCOM Management Cloud Management Cloud SD-WAN SD-WAN - automatic WAN configuration via the LANCOM Management Cloud Management Cloud Management Cloud Management Cloud 1,15 lbs (S20 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0 - 40° C; humidity 0 - 95%; non-condensing Housing Robust synthetic housing, rear connectors, ready for wall mounting. Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans I silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 SGHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany Y) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Stope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable ISDN cable, 3 m Cable ISDN cable, 3 m Cable ISDN cable, 3 m (over POTS)	Monitoring functions	Device SYSLOG, SNMPv1,v2c,v3 incl. SNMP-TRAPS, extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for firewall events
SLA-Monitor (ICMP) Performance monitoring of connections SD-WLAN SD-WLAN — automatic WLAN configuration via the LANCOM Management Cloud SD-WAN SD-WAN — automatic WAN configuration via the LANCOM Management Cloud SD-WAN SD-WAN — automatic WAN configuration via the LANCOM Management Cloud Hardware Weight 1,15 lbs (520 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0—40° C; humidity 0—95%; non-condensing Housing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE E EN 60950-1, EN 55022, EN 55024 SGHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *7) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DEFN), Installation Guide (DEFN) Cable I Ethernet cable, 3 m Cable I SDN cable, 3m Cable I DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (R111 to TAE)	Monitoring statistics	Extensive Ethernet, IP and DNS statistics; SYSLOG error counter, accounting information exportable via LANmonitor and SYSLOG, Layer 7 Application Detection including application-centric tracking of traffic volume
SD-WLAN SD-WLAN – automatic WLAN configuration via the LANCOM Management Cloud SD-WAN SD-WAN – automatic LAN configuration via the LANCOM Management Cloud SD-WAN SD-WAN – automatic WAN configuration via the LANCOM Management Cloud Hardware Weight 1,15 lbs (520 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0–40° C; humidity 0–95%; non-condensing Housing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4 X TAE adapter (R111 to TAE)	iPerf	iPerf is a tool for measurements of the bandwidth on IP networks (integrated client and server)
SD-LAN SD-LAN - automatic LAN configuration via the LANCOM Management Cloud SD-WAN SD-WAN - automatic WAN configuration via the LANCOM Management Cloud Hardware Weight 1,15 lbs (520 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0-40° C; humidity 0-95%; non-condensing Housing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany **) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable I Ethernet cable, 3 m Cable ISDN cable, 3m Cable I SDN cable, 3m Cable I DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter	SLA-Monitor (ICMP)	Performance monitoring of connections
SD-WAN SD-WAN – automatic WAN configuration via the LANCOM Management Cloud Hardware Weight 1,15 lbs (520 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0-40° C; humidity 0-95%; non-condensing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany 1) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3 m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter	SD-WLAN	SD-WLAN – automatic WLAN configuration via the LANCOM Management Cloud
Weight 1,15 lbs (520 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0-40° C; humidity 0-95%; non-condensing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany 1) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable 15DN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (R111 to TAE)	SD-LAN	SD-LAN — automatic LAN configuration via the LANCOM Management Cloud
Weight 1,15 lbs (520 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0–40° C; humidity 0–95%; non-condensing Housing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable ISDN cable, 3 m Cable ISDN cable, 3 m Cable IDSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (R111 to TAE)	SD-WAN	SD-WAN — automatic WAN configuration via the LANCOM Management Cloud
Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 0–40° C; humidity 0–95%; non-condensing Housing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4 x TAE adapter (R111 to TAE)	Hardware	
Environment Temperature range 0–40° C; humidity 0–95%; non-condensing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Weight	1,15 lbs (520 g)
Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Power supply	12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging
Fans 1 silent fan Power consumption (max) 17 watt Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Environment	Temperature range 0–40° C; humidity 0–95%; non-condensing
Power consumption (max) Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Housing	Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D)
Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Fans	1 silent fan
CE EN 60950-1, EN 55022, EN 55024 5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Power consumption (max)	17 watt
5 GHz WLAN EN 301 893 2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Declarations of conformity*	
2.4 GHz WLAN EN 300 328 IPv6 IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	CE	EN 60950-1, EN 55022, EN 55024
IPv6 Ready Gold Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	5 GHz WLAN	EN 301 893
Country of Origin Made in Germany *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	2.4 GHz WLAN	EN 300 328
*) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.com Scope of delivery Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	IPv6	IPv6 Ready Gold
Manual Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) Cable 1 Ethernet cable, 3 m Cable ISDN cable, 3 m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Country of Origin	Made in Germany
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Cable ISDN cable, 3m Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Manual	Hardware Quick Reference (DE/EN), Installation Guide (DE/EN)
Cable 1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS) Adapter 4x TAE adapter (RJ11 to TAE)	Cable	1 Ethernet cable, 3 m
Adapter 4x TAE adapter (RJ11 to TAE)	Cable	ISDN cable, 3m
	Cable	1 DSL cable for an IP-based line incl. galvanic signature, 4.25m (over ISDN) or DSL cable, 3 m (over POTS)
Adapter 2x RJ11 twin adapter	Adapter	4x TAE adapter (RJ11 to TAE)
	Adapter	2x RJ11 twin adapter



Scope of delivery	
Power supply unit	External power adapter (230 V), NEST 12 V/2.0 A DC/S, coaxial power connector 2.1/5.5 mm bayonet, temperature range from -5 to +45° C, LANCOM item no. 111303 (EU)/LANCOM item no 110829 (UK)
Support	
Warranty	3 years support
Software updates	Regular free updates (LCOS operating system and LANtools) via Internet
Options	
VPN	LANCOM VPN-25 Option (25 channels), item no. 60083
LANCOM Content Filter	LANCOM Content Filter +10 user (additive up to 100), 1 year subscription, item no. 61590
LANCOM Content Filter	LANCOM Content Filter +25 user (additive up to 100), 1 year subscription, item no. 61591
LANCOM Content Filter	LANCOM Content Filter +100 user (additive up to 100), 1 year subscription, item no. 61592
LANCOM Content Filter	LANCOM Content Filter +10 user (additive up to 100), 3 year subscription, item no. 61593
LANCOM Content Filter	LANCOM Content Filter +25 user (additive up to 100), 3 year subscription, item no. 61594
LANCOM Content Filter	LANCOM Content Filter +100 user (additive up to 100), 3 year subscription, item no. 61595
LANCOM Warranty Basic Option S	Option to extend the manufacturer's warranty from 3 to 5 years, item no. 10710
LANCOM Warranty Advanced Option S	Option to extend the manufacturer's warranty from 3 to 5 years and replacement of a defective device, item no. 10715
LANCOM Public Spot	Hotspot option for LANCOM access points, LANCOM 17xx and LANCOM 19xx series for user authentication (17xx up to 64 / 19xx up to 256), versatile access (via voucher, e-mail, SMS), including a comfortable setup wizard, secure separation of guest access and internal network, item no. 60642
LANCOM Public Spot PMS Accounting Plus	Extension of the LANCOM Public Spot (XL) Option for the connection to hotel billing systems with FIAS interface (such as Micros Fidelio) for authentication and billing of guest accesses for 178x/19xx routers, WLCs, and current central-site gateways, item no. 61638
LANCOM VoIP +10 Option	Upgrade for LANCOM VoIP router with 10 additional internal VoIP numbers (additionally up to 40) and 10 external SIP lines (additionally up to 55) item no. 61423
LANCOM Management Cloud	
LANCOM LMC-B-1Y LMC License	LANCOM LMC-B-1Y License (1 Year), enables the management of one category B device for one year via the LANCOM Management Cloud, item no. 50103
LANCOM LMC-B-3Y LMC License	LANCOM LMC-B-3Y License (3 Years), enables the management of one category B device for three years via the LANCOM Management Cloud, item no. 50104
LANCOM LMC-B-5Y LMC License	LANCOM LMC-B-5Y License (5 Years), enables the management of one category B device for five years via the LANCOM Management Cloud, item no. 50105
Accessories	
LANCOM DECT 510 IP (EU)	Professional DECT base station for up to 6 DECT phones, network integration and configuration via LANCOM VoIP router, 4 simultaneous calls possible, highest voice quality, power supply via PoE or power supply unit, item no. 61901
19" Rack Mount	19" rack mount adaptor, item no. 61501
LANCOM Wall Mount	For simple, theft-proof mounting of LANCOM devices with plastic housings, item no. 61349
LANCOM Wall Mount (White)	For simple, theft-proof mounting of LANCOM devices with plastic housings, item no. 61345
LANCOM Serial Adapter Kit	For the connection of V.24 modems with AT command set and serial interface for the connection to the LANCOM COM interface, incl. serial cable and connection plug, item no. 61500
VPN Client Software	LANCOM Advanced VPN Client for Windows 7, Windows 8, Windows 8.1, Windows 10, single license, item no. 61600
VPN Client Software	LANCOM Advanced VPN Client for Windows 7, Windows 8, Windows 8.1, Windows 10, 10 licenses, item no. 61601
VPN Client Software	LANCOM Advanced VPN Client for Windows 7, Windows 8, Windows 8.1, Windows 10, 25 licenses, item no. 61602
VPN Client Software	LANCOM Advanced VPN Client for Mac OS X (10.5 Intel only, 10.6 or higher), single license, item no. 61606
VPN Client Software	LANCOM Advanced VPN Client for Mac OS X (10.5 Intel only, 10.6 or higher), 10 licenses, item no. 61607



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LANCOM 1793VAW

Item number(s)	
LANCOM 1793VAW (EU)	62115

