



## LANCOM 884 VoIP

Business VoIP router for the secure All-IP migration, telephony, and high-speed Internet via VDSL2 / ADSL2+ for single-site businesses

The LANCOM 1681V with its integrated VDSL2 modem opens up the high-speed world of VDSL to business customers. The compact device allows businesses to use professional router features such as IPsec VPN and virtualization in conjunction with the high data rates available with VDSL. This combination enables business users to make best use of a VDSL connection and, at low cost, use high-bandwidth networking to establish performance site connectivity.

- › Business VoIP router for the continued operation of existing ISDN components after converting to All-IP
- › Professional telephony functions with the integrated LANCOM VCM (Voice Call Manager) & SBC (Session Border Controller)
- › Flexible professional router for high-speed Internet access thanks to VDSL2 and ADSL2+ modem
- › 4x internal ISDN connections for the connection to PBX systems with up to 4 S0 connections (2x NT and 2x TE/NT)
- › Up to 8 simultaneous ISDN voice channels
- › 3 IPsec VPN channels for professional and secure site connectivity
- › Security Made in Germany
- › Maximum security, reliability, and future-proofness

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## Operating VoIP terminal equipment and ISDN PBXs

The LANCOM 884 VoIP translates between ISDN and VoIP. Along with current VoIP equipment, you can continue to operate your existing ISDN components without having to replace them - a cost-saving and professional solution, as the LANCOM 884 VoIP with its four ISDN interfaces is ideal for locations with former ISDN connections. Already existing telephony systems can still be operated with new SIP trunk connections.

## Professional telephony with the LANCOM VCM (Voice Call Manager)

The LANCOM Voice Call Manager is already integrated into the LANCOM 884 VoIP and provides advanced telephony support. It handles the telephony management and controls all of the PBX components and functions of the router. Furthermore the VCM offers a simple integration of DECT telephony by autoprovisioning the LANCOM DECT 510 IP base station.

## Integrated Session Border Controller

The LANCOM Voice Call Manager provides common functionalities of a Session Border Controller: For instance, it enables the secure separation of external (insecure) and internal (secure) networks. Ensuring a high voice quality, voice packets are preferred due to bandwidth reservation (Quality of Service). On top of that, the VCM as a SIP proxy enables the professional management of signaling and voice data for a high security during establishment, processing, and termination of phone calls. - including the necessary conversion of protocols via transcoding.

## High-speed Internet access

The LANCOM 884 VoIP is a professional, high-performance router for high-speed Internet access with its integrated VDSL2/ADSL2+ modem. Thus it offers maximum flexibility for the transition from ADSL to the high-speed Internet with VDSL - thanks to VDSL2 Vectoring support offering up to 100 Mbps.

## Security Made in Germany

LANCOM provides maximum security "Made in Germany": The entire LANCOM core portfolio is developed, manufactured and tested based on highest data security and quality standards. On top of that, the proprietary "closed-source" firmware LCOS is developed by our own employees at our German headquarters in a certified high-security environment - ensuring highest security, encryption, and quality standards.

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| Layer 2 features                  |   |
|-----------------------------------|---|
| VLAN                              | 4.096 IDs based on IEEE 802.1q, dynamic assignment, Q-in-Q tagging  |
| Multicast                         | IGMP-Snooping   |
| Protocols                         | ARP-Lookup, LLDP, ARP, Proxy ARP, BOOTP, DHCP   |
| 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 2 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   |
| IPv4 protocols                    | DNS, HTTP, HTTPS, ICMP, NTP/SNTP, NetBIOS, PPPoE (server), RADIUS, RADSEC (secure RADIUS), RTP, SNMPv1,v2c,v3, TFTP, TACACS+  |
| IPv6 protocols                    | NDP, stateless address autoconfiguration (SLAAC), stateful address autoconfiguration (DHCPv6), router advertisements, ICMPv6, DHCPv6, DNS, HTTP, HTTPS, PPPoE, RADIUS, SMTP, NTP, Syslog, SNMPv1,v2c,v3   |
| WAN operating mode                | VDSL, ADSL1, ADSL2 or ADSL2+ additional with external DSL modem at an ETH port, UMTS/LTE  |
| WAN protocols                     | PPPoE, Multi-PPPoE, ML-PPP, GRE, EoGRE, PPTP (PAC or PNS), L2TPv2 (LAC or LNS) and 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  |
| 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  |

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| High availability / redundancy     |   |
|------------------------------------|---|
| 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: 3. Unlimited configurable connections.  |
| 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)   |
| 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  |
| 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   |

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| VPN                                     |   |
|---|---|
| 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)   |
| VPN throughput (max., AES)              |   |
| 1418-byte frame size UDP                | 320 Mbps  |
| Firewall throughput (max.)              |   |
| 1518-byte frame size UDP                | 800 Mbps  |
| VoIP                                    |   |
| Number of local subscribers             | 10 (up to 40 with VoIP +10 Option)  |
| Number of local ISDN subscribers        | Up to 4 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. |
| 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 ISDN telephone calls to VoIP calls, and vice versa. Local ISDN subscribers register as local VoIP users, and local ISDN subscribers automatically register as VoIP users at upstream VoIP PBXs/with VoIP 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.   |
| 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 u-law/A-law (64 kbps)   |
| Fax transmission                        | Transmission 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 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)   |

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| VoIP                      |  |
|---------------------------|--|
| 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 of ISDN interface states 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: VDSL / ADSL2+        | <ul style="list-style-type: none"> <li>■ VDSL2 compliant with ITU G.993.2, profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a</li> <li>■ VDSL2 vectoring compliant with ITU G.993.5</li> <li>■ Compliant to: ADSL2+ over ISDN as per ITU G.992.5 Annex B with DPBO, ADSL2 over ISDN as per ITU G.992.3/5 Annex B/J, ADSL over ISDN as per ITU G.992.1 Annex B (EU, over ISDN)</li> <li>■ Supports one virtual ATM circuit (VPI, VCI pair) at a time</li> </ul> |
| WAN: Ethernet             | 10/100/1000 Mbps Gigabit Ethernet  |
| 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  |
| ISDN                      | 2x ISDN BRI port (NT) and 2x internal/external ISDN port (NT/TE)   |
| 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 and monitoring |  |
| Management                | LANCOM Management Cloud, LANconfig, WEBconfig, 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 RADSEC user management, remote access (WAN or (W)LAN, access rights (read/write) adjustable separately), 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   |
| 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  |
| 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                     | iPerf is a tool for measurements of the bandwidth on IP networks (integrated client and server)  |
| SLA-Monitor (ICMP)        | Performance monitoring of connections  |
| 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                    | 1,1 lbs (500 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                      | None; fanless design without rotating parts, high MTBF   |

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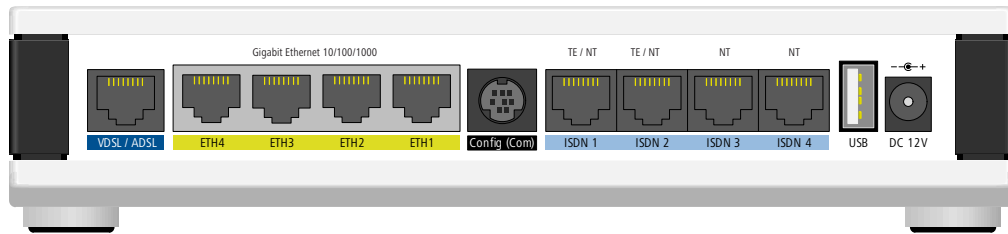
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| Hardware                               |   |
|--|---|
| Power consumption (max)                | 14 watt   |
| Declarations of conformity*            |   |
| CE                                     | EN 60950-1, EN 55022, EN 55024  |
| IPv6                                   | 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 <a href="http://www.lancom-systems.eu">www.lancom-systems.eu</a>   |
| Scope of delivery                      |   |
| Manual                                 | Hardware Quick Reference (DE/EN), Installation Guide (DE/EN)  |
| Cable                                  | DSL cable for IP based communications incl. galvanic signature, 4,25m   |
| Power supply unit                      | External power adapter (230 V), NEST 12 V/1.5 A DC/S, coaxial power connector 2.1/5.5 mm bayonet, temperature range from -5 to +45° C, LANCOM item no. 111301 (EU)/LANCOM item no 110829 (UK)   |
| Support                                |   |
| Warranty                               | 3 years support   |
| Software updates                       | Regular free updates (LCOS operating system and LANtools) via Internet  |
| Options                                |   |
| LANCOM Content Filter                  | LANCOM Content Filter +10 user, 1 year subscription, item no. 61590   |
| LANCOM Content Filter                  | LANCOM Content Filter +25 user, 1 year subscription, item no. 61591   |
| LANCOM Content Filter                  | LANCOM Content Filter +100 user, 1 year subscription, item no. 61592  |
| LANCOM Content Filter                  | LANCOM Content Filter +10 user, 3 year subscription, item no. 61593   |
| LANCOM Content Filter                  | LANCOM Content Filter +25 user, 3 year subscription, item no. 61594   |
| LANCOM Content Filter                  | LANCOM Content Filter +100 user, 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 (up to 64), 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-A-1Y LMC License            | LANCOM LMC-A-1Y License (1 Year), enables the management of one category A device for one year via the LANCOM Management Cloud, item no. 50100  |
| LANCOM LMC-A-3Y LMC License            | LANCOM LMC-A-3Y License (3 Years), enables the management of one category A device for three years via the LANCOM Management Cloud, item no. 50101  |
| LANCOM LMC-A-5Y LMC License            | LANCOM LMC-A-5Y License (5 Years), enables the management of one category A device for five years via the LANCOM Management Cloud, item no. 50102   |
| 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  |

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| Accessories                             |   |
|---|---|
| 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 Vista, Windows 7, Windows 8, Windows 8.1, Windows 10, single license, item no. 61600   |
| VPN Client Software                     | LANCOM Advanced VPN Client for Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10, 10 licenses, item no. 61601  |
| VPN Client Software                     | LANCOM Advanced VPN Client for Windows Vista, 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  |
| Item number(s)                          |   |
| LANCOM 884 VoIP (All-IP, EU, over ISDN) | 62082   |



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