

LCOS 10.92

LANCOM ISG-5000

Centralized performance for medium-sized SD-WAN scenarios



Large-scale multi-service IP networks have to offer the ultimate in performance and reliability at the central site. The LANCOM ISG-5000 is the secure and future-proof heart of your VPN networking strategy, thanks to its powerful platform with state-of-the-art encryption technologies, high scalability VPN, and redundancy features. Use SD-WAN to effortlessly connect your sites, branches, and remote workers. You can also upgrade this integrated services gateway with additional features such as a hotspot, clustering, or up to 1,000 VPN channels.

- SD-WAN central site gateway
- 100 concurrent IPsec VPN connections (1,000 optional)
- Support for up to 4096 VLANs / 256 ARF contexts
- SD-WAN support with High Scalability VPN (HSVPN)
- 2x 10G SFP+ ports, 6x GE-ETH ports, RJ45 config port
- Powerful SD-WAN for medium-sized, site-distributed network infrastructures in conjunction with the LANCOM Management Cloud
- Optionally upgradeable with hotspot, content filtering or clustering features
- Maximum future compatibility, reliability, and security "Engineered in Germany"



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LANCOM ISG-5000

Secure site connectivity for medium-sized SD-WAN enterprise scenarios

The LANCOM ISG-5000 is the central instance for your high-performance SD-WAN in large enterprise infrastructures. 100 integrated VPN channels based on state-of-the-art encryption technologies and demand-oriented ports (6x Gigabit Ethernet, 2x SFP+, 2x USB, RJ45 config port) deliver the best possible conditions for networking mobile employees, protecting internal company data, and taking high-performance IPsec connectivity to sensitive network segments or branches. The LANCOM VPN option upgrades the gateway to support up to 1,000 VPN channels. This ensures that your network is perfectly scalable and can grow on demand—without needing additional hardware.

Powerful SD-WAN greatly simplifies the management of enterprise structures

In combination with the LANCOM Management Cloud, the LANCOM ISG-5000 provides the ideal basis for establishing a high-performance SD-WAN. For instance, it enables the highly automated configuration of a wide area network and an automatic rollout of device configurations to your individual locations. You benefit from highest levels of scalability, save on personnel costs, and keep track of the status of your network 24/7—ideal for mid-sized enterprise scenarios with multiple locations.

Next-generation SD-WAN: High Scalability VPN (HSVPN)

The LANCOM ISG-5000 supports High Scalability VPN (HSVPN). The ongoing rise of digitalization, greater diversity of applications, and higher data volumes demand powerful, state-of-the-art networks. High Scalability VPN significantly improves the extensibility and efficiency of your architecture. Where previously each individual application required a separate VPN tunnel, HSVPN bundles any number of networks into a single VPN tunnel and transports them collectively to the remote site—with each network remaining secure and strictly separated from the others. The advantage for your business: Considerably fewer VPN tunnels are required, and recovery times are much faster in a failover event.

Maximum port flexibility

From fiber-optic to Ethernet and USB ports: As the core of the network, this integrated services gateway offers 6 Gigabit Ethernet ports as well as 2x USB. In addition, thanks to 2 SFP+ ports with 10 Gigabit, you can increase the capacity of your data transfers to servers, network storage or switches.



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Layer 2 features

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| VLAN | 4.096 IDs based on IEEE 802.1q, dynamic assignment |
| Multicast | IGMP-Snooping, MLD-Snooping |
| Protocols | Ethernet over GRE-Tunnel (EoGRE), L2TPv3, 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 |
| OAM | Ethernet link OAM 802.3ah, IEEE 802.1ag CFM |

Layer 3 features

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| Firewall | Stateful inspection firewall including packet filtering, extended port forwarding, N:N IP address mapping, packet tagging, support for DNS targets, user-defined rules and notifications |
| Quality of Service | Traffic shaping, bandwidth reservation, DiffServ/TOS, packet size control, layer-2-in-layer-3 tagging, support for 8 QoS queues (6 free configurable) |
| 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) |
| Router | IPv4-, IPv6-, IPv4/IPv6 dual stack |
| SD-WAN Application Routing | SD-WAN Application Routing in connection with the LANCOM Management Cloud |
| SD-WAN dynamic path selection | SD-WAN dynamic path selection in connection with the LANCOM Management Cloud |
| Router virtualization | ARF (Advanced Routing and Forwarding) up to separate processing of 256 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, 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 |
| Dynamic routing protocols | RIPv2, BGPv4, OSPFv2, LISP (Locator/ID Separation Protocol) |
| IPv4 protocols | DNS, HTTP, HTTPS, ICMP, NTP/SNTP, PPPoE (server), RADIUS, RADSEC (secure RADIUS), RTP, SNMPv1,v2c,v3, TFTP, TACACS+, IGMPv3 |
| 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, MLDv2, PIM, NPTv6 (NAT66), VRRPv3 |



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Layer 3 features

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| Multicast Routing | PIM (Protocol Independent Multicast), IGMP proxy, MLD proxy |
| WAN operating mode | VDSL, ADSL1, ADSL2 or ADSL2+ additional with external DSL modem at an ETH port |
| WAN protocols | PPPoE, Multi-PPPoE, GRE, EoGRE, PPTP (PAC or PNS), L2TPv2 (LAC or LNS), L2TPv3 with Ethernet-Pseudowire 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, Dual Stack Lite, 464XLAT |

Security

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| 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 Security Essentials 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 |
| Adjustable reset button | Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot' |

High availability / redundancy

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| VRRP | VRRP (Virtual Router Redundancy Protocol VRRPv2 and VRRPv3) 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 |
| Load balancing | Static and dynamic load balancing over up to 4 WAN connections (incl. client binding). |
| 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 |



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VPN

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| 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: 100 (200 / 500 / 1000 with VPN-500 / VPN-1000 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 |
| 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, ECDSA-Signature, digital signature) |
| Smart Certificate | Convenient generation of digital X.509 certificates via an own certification authority (SCEP-CA) on the webpage or via SCEP. |
| 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. |
| Algorithms | 3DES (168 bit), AES-CBC and -GCM (128, 192 or 256 bit), RSA (1024-4096 bit), ECDSA (P-256-, P-384-, P-521-curves) and Chacha20-Poly 1305. 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 |
| MOBIKE | IKEv2 VPN clients can seamlessly switch between different networks (e.g. from WLAN to mobile radio) without having to re-establish the VPN tunnel |



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VPN

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| LANCOM Dynamic VPN | Enables VPN connections from or to dynamic IP addresses. The IP address is communicated via 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 |
| Split DNS | Allows the selective forwarding of traffic for IKEv2 depending on the addressed DNS domain. |
| 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) |
| High Scalability VPN (HSVPN) | Transmission of multiple, securely separated networks within a VPN tunnel |
| Advanced Mesh VPN | On demand dynamic VPN tunnel establishment between branches |
| IKEv2-EAP | VPN clients can be authenticated with IKEv2-EAP against a central database like Microsoft Windows Server or RADIUS Server |
| Two-factor authentication | Two-factor authentication with LANCOM Advanced VPN Client via IKEv2 EAP-OTP |

VoIP

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| Number of local subscribers | 10 (up to 40 with VoIP +10 Option) |
| Number of simultaneous VoIP connections | Up to 100 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 |
| 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. |



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VoIP

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| 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 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 |
| Session Border Controller (SBC) | Separation of insecure and secure networks, QoS, management of signaling and voice data, transcoding |
| Media protocols | RTP, SIPS and SRTP |
| 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) |
| Autoprovisioning | Automatic network and VoIP integration of LANCOM DECT N510/610 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

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| Ethernet ports | 6 ETH ports (10/100/1000 Mbps Ethernet), and two SFP+ ports (10 GBit/s); up to 5 ports can be operated as additional WAN ports with load balancing. Ethernet ports can be electrically disabled within LCOS configuration. The LANCOM GPON-SFP-1 module supports up to 1Gbps when installed in an SFP+ port. |
| Port configuration | Each Ethernet port can be freely configured (LAN, DMZ, WAN, monitor port, off). Additionally, external DSL modems or termination routers can be operated as a WAN port with load balancing and policy-based routing. |
| USB 3.0 host port | 2x USB 3.0 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 |
| Serial interface | Serial configuration interface / COM port (RJ-45): 9,600 - 115,000 baud. Supports internal COM port server and allows for transparent asynchronous transmission of serial data via TCP |

Management and monitoring

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| 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 |
| 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 |



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Management and monitoring

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| 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 |
| Netflow | Export of information about incoming and outgoing IP traffic |
| 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

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| Weight | 3,5 kg |
| Power supply | Internal power supply unit (100–240 V, 50-60 Hz) |
| Environment | Temperature range 0–40° C; humidity 0–85%; non-condensing |
| Housing | Robust metal housing, 19" 1 HU (440 x 44 x 269,2 mm, W x H x D), with removable mounting brackets, network connectors on the front |
| Fans | 2 |
| waste heat (max.) | 204 BTU/h |
| Power consumption (max.) | 60 watt |

Declarations of conformity*

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| Europe/EFTA | CE |
| North America | FCC/IC |
| *) Note | You will find all declarations of conformity on our website at www.lancom-systems.com/doc |

Scope of delivery

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| Manual | Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) |
| Cable | 1 Ethernet cable, 3 m |
| Cable | EU version: IEC power cord |



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Support

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| Warranty extension | Free warranty extension up to 3 years (replacement service for defects) For details, please refer to the service and support conditions at www.lancom-systems.com/support-conditions or at www.lancom.de/rma . |
| Security updates | Up to 2 years after End of Sale of the device (but min. 3 years, see www.lancom-systems.com/product-tables), can be extended by purchasing LANcare products |
| Software updates | Regular free updates including new features as part of the LANCOM Lifecycle Management (www.lancom-systems.com/lifecycle) |
| Manufacturer support | Technical manufacturer support as part of a support contract (LANcommunity partner, LANcare Direct, or LANcare Premium Support) |
| LANcare Basic L | Security updates until EOL (min. 5 years) and 5 years replacement service with shipment of the replacement device within 5 days after arrival of the defective device (8/5/5Days), item no. 10722 |
| LANcare Advanced L | Security updates until EOL (min. 5 years) and 5 years NBD advance replacement with delivery of the replacement device within one business day (8/5/NBD), item no. 10732 |
| LANcare Direct Advanced 24/7 L | Direct, prioritized 10/5 manufacturer support incl. 24/7 emergency hotline and security updates for the device, NBD advance replacement with delivery of the device on the next business day (24/7/NBD), guaranteed first response times (SLA) of max. 30 minutes for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years (item no. 10782, 10783 or 10784) |
| LANcare Direct 24/7 L | Direct, prioritized 10/5 manufacturer support incl. 24/7 emergency hotline and security updates for the device, guaranteed first response times (SLA) of max. 30 minutes for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years (item no. 10758, 10759 or 10760) |
| LANcare Direct Advanced 10/5 L | Direct, prioritized 10/5 manufacturer support and security updates for the device, NBD advance replacement with delivery of the device on the next business day (10/5/NBD), guaranteed first response times (SLA) of max. 2 hours for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years.(item no. 10770, 10771 or 10772) |
| LANcare Direct 10/5 L | Direct, prioritized 10/5 manufacturer support and security updates for the device, guaranteed first response times (SLA) of max. 2 hours for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years.(item no. 10746, 10747 or 10748) |

Software

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| Lifecycle Management | After discontinuation (End of Sale), the device is subject to the LANCOM Lifecycle Management. Details can be found at: www.lancom-systems.com/lifecycle |
| Anti-backdoor policy | Products from LANCOM are free of hidden access paths (backdoors) and other undesirable features for introducing, extracting or manipulating data. The trust seal "IT Security made in Germany" (ITSMIG) and certification by the German Federal Office for Information Security (BSI) confirm the trustworthiness and the outstanding level of security. |

Options

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| VPN | LANCOM VPN-200 Option (200 channels), item no. 61404 |
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Options

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| VPN | LANCOM VPN-500 Option (500 channels), item no. 61402 |
| VPN | LANCOM VPN-1000 Option (1000 channels), item no. 61403 |
| LANCOM Security Essentials | LANCOM Security Essentials D Option 1-Year (for LANCOM SD-WAN central site gateways ISG-5000 and ISG-8000 as well as WLAN controller LANCOM WLC-2000), item no. 62174 |
| LANCOM Security Essentials | LANCOM Security Essentials D Option 3-Years (for LANCOM SD-WAN central site gateways ISG-5000 and ISG-8000 as well as WLAN controller LANCOM WLC-2000), item no. 62174 |
| LANCOM Security Essentials | LANCOM Security Essentials D Option 5-Years (for LANCOM SD-WAN central site gateways ISG-5000 and ISG-8000 as well as WLAN controller LANCOM WLC-2000), item no. 62175 |
| LANCOM BPjM Filter | LANCOM BPjM Filter Option, 5 years subscription, item no. 61418 |
| LANCOM Public Spot XL | Hotspot option for LANCOM WLC-4100, WLC-4025(+), LANCOM 9100(+) VPN, LANCOM 7100(+) VPN, LANCOM ISG-1000, LANCOM ISG-4000, and LANCOM ISG-8000 for user authentication (recommended up to 2,500), versatile access (via voucher, e-mail, SMS), including a comfortable setup wizard, item no. 61624 |
| 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, 2100EF, 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 VPN High Availability Clustering XL Option | Comfortable administration of cluster devices like one single device — even at networks across locations, item no. 61637 |
| *) Note | Further details on LANCOM Service Packs are available at the following Internet address: www.lancom-systems.com/products/services-and-support |

LANCOM Management Cloud

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| LANCOM LMC-D-1Y LMC License | LANCOM LMC-D-1Y License (1 Year), enables the management of one category D device for one year via the LANCOM Management Cloud, item no. 50109 |
| LANCOM LMC-D-3Y LMC License | LANCOM LMC-D-3Y License (3 Years), enables the management of one category D device for three years via the LANCOM Management Cloud, item no. 50110 |
| LANCOM LMC-D-5Y LMC License | LANCOM LMC-D-5Y License (5 Years), enables the management of one category D device for five years via the LANCOM Management Cloud, item no. 50111 |

Accessories

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| 1000Base-BX20-U SFP module | LANCOM SFP-AON-1, item no. 60200 |
| 10GBASE-BX20-U SFP module | LANCOM SFP-AON-10, item no. 60211 |
| GPON ONT SFP module | LANCOM SFP-GPON-1, Compatible for the use on FTTH-lines of Deutsche Telekom, item no. 60199 |



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Accessories

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| XGS-PON ONT SFP module | LANCOM SFP-XGSPON-1, item no. 60207 |
| 1000Base-BX20 SFP module pair | LANCOM SFP-BiDi1550-SC1, item no. 60201 |
| 1000Base-SX SFP module, 550 m | LANCOM SFP-SX-LC1, item no. 61556 |
| 1000Base-SX SFP module, 550 m (Bulk 10) | LANCOM SFP-SX-LC1 (Bulk 10), item no. 60184 |
| 1000Base-SX SFP module, 2 km | LANCOM SFP-SX2-LC1, item no. 60183 |
| 1000Base-LX SFP module | LANCOM SFP-LX-LC1, item no. 61557 |
| 1000Base-LX SFP module (Bulk 10) | LANCOM SFP-LX-LC1 (Bulk 10), item no. 60185 |
| 10GBASE-SR/SW SFP module | LANCOM SFP-SX-LC10, item no. 61485 |
| 10GBASE-LR/LW SFP module | LANCOM SFP-LX-LC10, item no. 61497 |
| 10GBASE-ER SFP module | LANCOM SFP-LR40-LC10, item no. 60182 |
| Direct attach cable | LANCOM SFP-DAC10-1m, item no. 61495 |
| Direct attach cable | LANCOM SFP-DAC10-3m, item no. 60175 |
| SFP copper module 1G | LANCOM SFP-CO1, item no. 61494 |
| SFP copper module 1G (Bulk 10) | LANCOM SFP-CO1 (Bulk 10), item no. 60186 |
| RJ45/USB Serial Adapter | LANCOM RJ45/USB Serial Adapter, item no. 61659 |
| VPN Client Software | LANCOM Advanced VPN Client for Windows 7,8/8.1,10,11 - single license, item no. 61600 |
| VPN Client Software | LANCOM Advanced VPN Client for Windows 7,8/8.1,10,11 - 10 licenses, item no. 61601 |
| VPN Client Software | LANCOM Advanced VPN Client for Windows 7,8/8.1,10,11 - 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 |
| *) Note | Support for third-party accessories (SFP and DAC) is excluded and cannot be granted |

Item number(s)

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| LANCOM ISG-5000 (EU) | 61079 |
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