

# LANCOM 1926VAG-5G

## Full SD-WAN power with 5G



This high-end router supports the high-performance 5G cellular standard. It guarantees the highest availability and the best bandwidths on every line: Be it with 5G as the primary access, in active/active mode with VDSL Super Vectoring, or via G.fast. State-of-the-art SD-WAN technology for secure, automated VPN site connectivity and the advantage of 5G technology, the LANCOM 1926VAG-5G is the top-class solution for mission-critical applications in medium-sized and large branch infrastructures.

- Two integrated VDSL Super Vectoring modems (operable in parallel), alternative use of a modem at a G.fast connection, 1x SFP/TP, 1x WAN Ethernet and 5G offering high performance
- Low latencies and high bandwidth for real-time applications thanks to integrated 5G modem(4K/8K video streaming, telephony or AR)
- Mobile primary operation or in parallel with other access technologies
- Load balancing for the active/active operation of several Internet access connections and maximization of the available bandwidth.
- 25 simultaneous IPsec VPN connections (100 optional)
- Network virtualization with up to 64 networks on one device (ARF)
- SD-WAN – automatic VPN and VLAN configuration via the LANCOM Management Cloud
- 2x ISDN S0, 4x analog (internal) / fax
- Professional telephony features thanks to integrated LANCOM VCM (Voice Call Manager) / SBC (session border controller)
- Full-metal housing for mounting in a 19" rack and integrated 230V power supply



LCOS 10.80

# LANCOM 1926VAG-5G

## Full future viability with 5G

As the primary connection when on the move, or in active/active mode with other access technologies, the LANCOM 1926VAG-5G provides all of the advantages of 5G technology, such as the low-latency and high-performance use of real-time applications such as telephony, video chat, video streaming in 4K or 8K, or augmented reality—especially where there is a high density of users. The backwards compatible 5G module works seamlessly with the 4G LTE network and thus guarantees maximum future viability.

## Multi-WAN & backup

The LANCOM 1926 series are the first routers on the market with two integrated VDSL Super Vectoring modems for a total of 2x 300 Mbps. Alternatively, one of the two modems can be used to connect via G.fast at up to 1,000 Mbps. Also, their SFP port allows them to operate directly at high-speed fiber-optic connections. They can also operate with any external DSL or cable modem via WAN Ethernet. The 5G modem integrated into the LANCOM 1926VAG-5G ensures high-performance cellular access. It is ideally suited for intelligent backup scenarios in 4G and at the same time offers future viability for 5G.

## Active/active (load balancing)

The LANCOM 1926VAG-5G allows multiple Internet access connections to be operated in parallel, with load balancing to ensure that the available bandwidth is used to maximum effect. With the combined operation of 5G, 2x VDSL Super Vectoring, and fiber optic, it provides unsurpassed availability and bandwidth. The LANCOM 1926VAG-5G thus offers the ultimate in future proofing for performance-hungry SD-WAN scenarios in mission-critical environments.

## LANCOM SD-WAN – Next-level networking

With LANCOM SD-WAN you can manage and monitor your entire corporate network centrally, cost-effectively, quickly, and stress-free! In combination with the LANCOM Management Cloud, the SD-WAN gateway gives you all the options for an automated setup of secure VPN connections (Auto-VPN) between sites, including network virtualization. Highlight features such as High Scalability VPN (HSVPN) and Advanced Mesh VPN offer you a significant plus in scalability and efficiency for a large number of branches and applications. Furthermore, if multiple WAN connections are defined, they are automatically operated in active/active mode (load balancing), thereby increasing the available total bandwidth. With Dynamic Path Selection and Dynamic Traffic Steering, applications are also dynamically routed via the best connection at any given time.

## Next-generation SD-WAN: High Scalability VPN

The LANCOM 1926VAG-5G 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.



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## **Secure communication via VPN**

With virtual private networks (VPN), you use the public medium of the Internet as a communication path and secure the connection in such a way that the communication still remains completely inaccessible to external parties. This SD-WAN gateway offers you 25 integrated IPSec VPN channels for secure encryption, so that the protection of internal company data is always guaranteed when connecting mobile employees, home offices, or branch offices. With the LANCOM VPN Option, you can also upgrade the device to up to 100 VPN channels, so that the infrastructure can easily grow with your needs without additional hardware.

## **Advanced Routing & Forwarding**

The LANCOM 1926VAG-5G provides up to 64 securely isolated IP contexts, each of which has its own separate routing. This is an elegant way of operating IP applications with one central router and keeping the different communication channels securely isolated from one another.

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

The LANCOM Voice Call Manager is already integrated into the LANCOM 1926VAG-5G and provides a wide range of telephony functions. It manages all aspects of the telephony and controls all of the router-based PBX functions for SIP, ISDN and analog components. Furthermore, it enables the easy integration of DECT telephones by auto provisioning with the LANCOM DECT 510 IP base station.

## **Integrated session border controller**

The LANCOM Voice Call Manager acts as a session border controller: This ensures that external (unsecure) and internal (secure) networks are kept separate. Also, voice packets are given priority (Quality of Service) thanks to bandwidth reservation, which ensures a higher quality of calls. In addition, the VCM as a SIP proxy enables the professional management of signaling and voice data for high security in the setup, implementation and teardown of telephone conversations, including any protocol conversion by means of transcoding.

## **Premium full-metal housing**

The LANCOM 1926VAG-5G comes in a high-quality full-metal housing with integrated 230V power supply. Thanks to the mounting system, it is easy to install in a 19" rack—with connection ports redirected to the front, it is quick and easy to work with.



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## Layer 2 features

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

## Layer 3 features

Firewall	Stateful inspection firewall including paket filtering, extended port forwarding, N:N IP address mapping, paket tagging, support for DNS targets, 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
Router	IPv4-, IPv6-, NetBIOS/IP multiprotokoll router, 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
SD-WAN Zero Touch Deployment	Zero touch commissioning of the device in conjunction with the LANCOM Management Cloud
Router virtualization	ARF (Advanced Routing and Forwarding) up to separate processing of 64 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
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+, 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)
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



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## Layer 3 features

WAN protocols	PPPoE, Multi-PPPoE, ML-PPP, 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)
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Tunneling protocols (IPv4/IPv6)	6to4, 6in4, 6rd (static and over DHCP), Dual Stack Lite (IPv4-in-IPv6-Tunnel), 464XLAT
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## Security

Intrusion Prevention	Monitoring and blocking of login attempts and port scans
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IP spoofing	Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed
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Access control lists	Filtering of IP or MAC addresses and preset protocols for configuration access
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Denial of Service protection	Protection from fragmentation errors and SYN flooding
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General	Detailed settings for handling reassembly, PING, stealth mode and AUTH port
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URL blocker	Filtering of unwanted URLs based on DNS hitlists and wildcard filters. Extended functionality with Content Filter Option
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Password protection	Password-protected configuration access can be set for each interface
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Alerts	Alerts via e-mail, SNMP traps and SYSLOG
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Authentication mechanisms	PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism
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Adjustable reset button	Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
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## High availability / redundancy

VRRP	VRRP (Virtual Router Redundancy Protocol) for backup in case of failure of a device or remote station.
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FirmSafe	For completely safe software upgrades thanks to two stored firmware versions, incl. test mode for firmware updates
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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)
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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)
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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

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	25 tunnels active simultaneously (50 / 100 with VPN-50 / VPN-100 Option) when combining IPSec with PPTP (MPPE) and L2TPv2 tunnels, 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, 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
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), Blowfish (128 bit), RSA (1024-4096 bit), ECDSA (P-256-, P-384-, P-521-curves), Chacha20-Poly 1305 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



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## VPN

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

## Performance

Routing-Performance	Data regarding the overall routing performance can be found inside the LANCOM tech paper "Routing-Performance" on <a href="http://www.lancom-systems.com">www.lancom-systems.com</a>
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## 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 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



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## VoIP

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 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
Session Border Controller (SBC)	Separation of insecure and secure networks, QoS, management of signaling and voice data, transcoding
Media protocols	RTP, SIPS and SRTP
ISDN features	Provision of extension lines.
Analog features	Internal FXS ports for one analog terminal device each, or as an analog PBX exchange line.
SIP-Codec support	SIP only: G.711 $\mu$ -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	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, analog or ISDN fax machines. Compatible to SwyxFax on true G.711 SIP lines.
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).

## Cellular radio

Supported standards	5G, LTE, UMTS and HSPA support (mode of transmission automatically or manually adjustable), 2G/GSM is not supported
Supported 5G modes	5G standalone (SA), 5G non-standalone (NSA)
Supported mobile bands (5G)	n1 (2100 MHz), n2 (1900 MHz), n3 (1800 MHz), n5 (850 MHz), n28 (700 MHz), n41 (2500 MHz), n66 (2100 MHz), n71 (600 MHz), n77 (3700 MHz), n78 (3500 MHz), n79 (4700 MHz)





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## Cellular radio

Supported mobile bands (4G)	B1 (2100 MHz), B2 (1900 MHz), B3 (1800 MHz), B4 (1700 MHz), B5 (850 MHz), B7 (2600 MHz), B8 (900 MHz), B12 (700 MHz), B13 (700 MHz), B14 (700 MHz), B17 (700 MHz), B18 (850 MHz), B19 (850 MHz), B20 (800 MHz), B25 (1900 MHz), B26 (850 MHz), B28 (700 MHz), B29 (700 MHz), B30 (2300 MHz), B32 (1500 MHz), B34 (2000 MHz), B38 (2600 MHz), B39 (1900 MHz), B40 (2300 MHz), B41 (2500 MHz), B42 (3500 MHz), B43 (3700 MHz), B46 (5200 MHz), B48 (3500 MHz), B66 (1700 MHz), B71 (600 MHz)
Supported mobile bands (3G)	Band 1 (2100 MHz), Band 2 (1900 MHz), Band 3 (1800 MHz), Band 4 (1700 MHz), Band 5 (850 MHz), Band 6 (800 MHz), Band 7 (2600 MHz), Band 8 (900 MHz), Band 9 (1700 MHz), Band 19 (800 MHz)
Diversity support	Receive diversity on the aux antenna (3G); MIMO (2x2) for LTE (4G); MIMO (4x4) for 5G
Supported SIM card formats*	Mini-SIM (2FF), Micro-SIM (3FF) via adaptor, Nano-SIM (4FF) via adaptor
*) Note	LANCOM Systems recommends the use of a standard SIM (2FF / Mini-SIM)

## Interfaces

WAN: G.FAST / VDSL / ADSL2+	<ul style="list-style-type: none"> <li>→ G.FAST compliant with ITU G.9700 and G.9701, profiles 106a, 212a</li> <li>→ VDSL2 compliant with ITU G.993.2, profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a, 35b</li> <li>→ VDSL Supervectoring as per ITU G.993.2 (Annex Q)</li> <li>→ VDSL2 Vectoring: as per ITU G.993.5 (G.Vector)</li> <li>→ Certified for the use with Swisscom (CH) VDSL and G.FAST lines</li> <li>→ ADSL2+ over ISDN as per ITU G.992.5 Annex B/J with DPBO, ITU G.992.3/5 and ITU G.992.1</li> <li>→ ADSL2+ over POTS as per ITU G.992.5 Annex A/M with DPBO, ITU G.992.3 and ITU.G.992.1</li> <li>→ Supports one virtual ATM circuit (VPI, VCI pair) at a time</li> </ul>
G.FAST / VDSL / ADSL2+	1x G.FAST/VDSL/ADSL2+- and 1x VDSL / ADSL2+ modem integrated
WAN: Ethernet	10/100/1000 Mbps Gigabit Ethernet
Ethernet ports	6 individual 10/100/1000 Mbps Ethernet ports, 2 of them are set to WAN; up to 3 ports can be operated as additional WAN ports. Ethernet ports can be electrically disabled within LCOS configuration. The ports support energy saving according to IEEE 802.3az
SFP slot	Slot for Small Form-factor Pluggable Gigabit Ethernet transceivers ('mini-GBIC'). Compatible to optional LANCOM SFP modules for fiber connections over short distances (SX) or long distances (LX). By default a WAN port that can be configured as a LAN port
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 internal ISDN BRI port (NT)
Analog	4x internal FXS ports (Analog1, Analog2, Analog3, Analog4) each for one analog device
Serial interface	Serial configuration interface / COM port (RJ45): 9,600 - 115,000 baud



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## 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
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
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

Weight	5,50 lbs (2,50 kg)
Power supply	Internal power supply unit (110–230 V, 50-60 Hz)
Environment	Temperature range 0–40°C; humidity 0–95%; non-condensing
Housing	Robust metal housing, network connectors on the front, 1U (345 x 44 x 253 mm > W x H x D) with removable mounting brackets
Fans	1 silent fan
Power consumption (max)	38 watt

## Declarations of conformity\*

Europe/EFTA	CE
IPv6	IPv6 Ready Gold
Country of Origin	Made in Germany
* ) Note	You will find all declarations of conformity on our website at <a href="http://www.lancom-systems.com/doc">www.lancom-systems.com/doc</a>



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## Scope of delivery

Manual	Hardware Quick Reference (DE/EN), Installation Guide (DE/EN)
Cable	1 Ethernet cable, 3 m
Cable	EU version: IEC power cord, WW version: country-specific IEC power cords are separately available
Cable	2x DSL cable for IP based communications incl. galvanic signature, 4,25m
Adapter	4x TAE adapter (RJ11 to TAE)
Antennas	Four 2 dBi 5G/LTE/UMTS-antennas

## Support

Warranty	3 years For details, please refer to the General Warranty Conditions at: <a href="http://www.lancom-systems.com/warranty-conditions">www.lancom-systems.com/warranty-conditions</a>
Security updates	3 years, can be extended by purchasing LANcare products
Software updates	Regular free updates as part of the LANCOM Lifecycle Managements ( <a href="http://www.lancom-systems.com/lifecycle">www.lancom-systems.com/lifecycle</a> )
Manufacturer support	Technical manufacturer support as part of a support contract (LANcommunity partner, LANcare Direct, or LANcare Premium Support)
LANcare Basic M	Security updates and manufacturer support until EOL status (min. 5 years, support contract required: LANcommunity partner, LANcare Direct, or LANcare Premium Support), 5 years replacement service with shipment of the device within 5 days after arrival of the faulty device (8/5/5Days), item no. 10721
LANcare Advanced M	Security updates and manufacturer support until EOL status (min. 5 years, support contract required: LANcommunity partner, LANcare Direct, or LANcare Premium Support), 5 years NBD advance replacement with delivery of the device on the next business day (8/5/NBD), item no. 10731
LANcare Direct Advanced 24/7 M	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. 10779, 10780 or 10781)
LANcare Direct 24/7 M	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. 10755, 10756 or 10757)
LANcare Direct Advanced 10/5 M	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. 10767, 10768 or 10769)
LANcare Direct 10/5 M	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. 10743, 10744 or 10745)



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## Software

Lifecycle Management	After discontinuation (End of Sale), the device is subject to the LANCOM Lifecycle Management. Details can be found at: <a href="http://www.lancom-systems.com/lifecycle">www.lancom-systems.com/lifecycle</a>
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.

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## Options

VPN	LANCOM VPN-50 Option (50 channels), item no. 61405
VPN	LANCOM VPN-100 Option (100 channels), item no. 61407
LANCOM Content Filter	LANCOM Content Filter +10 user (additive up to 500), 1 year subscription, item no. 61590
LANCOM Content Filter	LANCOM Content Filter +25 user (additive up to 500), 1 year subscription, item no. 61591
LANCOM Content Filter	LANCOM Content Filter +100 user (additive up to 500), 1 year subscription, item no. 61592
LANCOM Content Filter	LANCOM Content Filter +10 user (additive up to 500), 3 year subscription, item no. 61593
LANCOM Content Filter	LANCOM Content Filter +25 user (additive up to 500), 3 year subscription, item no. 61594
LANCOM Content Filter	LANCOM Content Filter +100 user (additive up to 500), 3 year subscription, item no. 61595
LANCOM BPjM Filter	LANCOM BPjM Filter Option, 5 years subscription, item no. 61418
LANCOM Public Spot	Hotspot option for LANCOM products, 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 WLC Basic Option for Routers	LANCOM WLC Basic Option for Routers for up to 6 managed LANCOM access points or WLAN routers, item no. 61639
LANCOM WLC AP Upgrade +6	LANCOM WLC AP Upgrade +6 Option, enables your WLC to manage 6 Access Points/WLAN router (additive up to 30) in addition, item no. 61629
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

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## LANCOM Management Cloud

LANCOM LMC-C-1Y LMC License	LANCOM LMC-C-1Y License (1 Year), enables the management of one category C device for one year via the LANCOM Management Cloud, item no. 50106
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# LANCOM 1926VAG-5G

## LANCOM Management Cloud

LANCOM LMC-C-3Y LMC License      LANCOM LMC-C-3Y License (3 Years), enables the management of one category C device for three years via the LANCOM Management Cloud, item no. 50107

LANCOM LMC-C-5Y LMC License      LANCOM LMC-C-5Y License (5 Years), enables the management of one category C device for five years via the LANCOM Management Cloud, item no. 50108

## 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

External antenna      AirLancer O-360Q-5G, omnidirectional outdoor antenna MIMO (4x4), for all 4G/5G bands (700-3800 MHz), item no. 61234

1000Base-BX20-U SFP module      LANCOM SFP-AON-1, item no. 60200

GPON ONT SFP module      LANCOM SFP-GPON-1, item no. 60199

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, 2 km      LANCOM SFP-SX2-LC1, item no. 60183

1000Base-LX SFP module      LANCOM SFP-LX-LC1, item no. 61557

SFP copper module 1G      LANCOM SFP-CO1, item no. 61494

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

LANCOM Power Cord (UK)      IEC power cord, UK plug, item no. 61650

LANCOM Power Cord (US)      IEC power cord, US plug, item no. 61651

LANCOM Power Cord (CH)      IEC power cord, CH plug, item no. 61652

LANCOM Power Cord (AU)      IEC power cord, AU plug, item no. 61653

\*) Note      Support for third-party accessories (SFP and DAC) is excluded and cannot be granted



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**Item number(s)**

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LANCOM 1926VAG-5G (EU)

62124

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