

High-performance business VPN router with integrated modem for LTE

- Certified IT security "Made in Germany" CC EAL 4+ compliant
- Ideal for highly secure site connectivity and the protection of critical sub-areas
- Integrated multimode LTE modem, backwards compatible to HSPA+, HSxPA, UMTS, EDGE, GPRS
- Secure VPN site connectivity with 5 simultaneous IPSec VPN channels (25 channels optional)
- Network virtualization with up to 16 virtual networks on one device (ARF)
- Powerful firewall with intrusion detection/Denial-of-Service protection
- Additionally available: LANCOM CC Start-up Kit for a certified installation



The professional VPN router LANCOM 1781-4G (CC) is ideal for public authorities, institutions, and commercial organizations that need a high level of security in their data communications: The LANCOM 1781-4G (CC) is intended for high-security operations based on CC EAL 4+. The certification by the German Federal Office for Information Security (BSI) guarantees that the evaluation of the LANCOM products meets worldwide highest standards. The evaluation level CC EAL 4+ is the highest level of certification a commercial network product can achieve. On top of that, the LANCOM 1781-4G (CC) comes with a field-proven scope of functionalities and interfaces. Comprehensive VPN functions enable remote sites to access the company network securely. With its built-in cellular modern that supports LTE, the LANCOM 1781-4G (CC) makes a reality of wireless Internet connectivity with speeds of up to 100 Mbps – a true 'last mile' alternative for public authorities and companies in locations without wired broadband. An extensive range of VPN functions enable remote sites to access the company network securely and at high speeds. The four ports of the integrated Gigabit Ethernet switch ensure maximum performance and are also energy-efficient based on IEEE 802.3az: If an interface is not being used to transmit data, the power consumption is automatically shut off. In addition the LANCOM 1781-4G (CC) supplies everything that a modern network needs, such as a powerful firewall.

More data security.

Certified IT security: Made in Germany. The LANCOM 1781-4G (CC) is ideal for public authorities, institutions, and commercial organizations that require the security level "CC EAL 4+" (Common Criteria for Information Technology Security Evaluation, Evaluation Assurance Level 4+) as specified by the German Federal Office for Information Security (BSI). This internationally recognized seal of approval guarantees the security and confidentiality of the LANCOM 1781-4G (CC), which an independent body has methodically examined and tested to level 4. Hence, the LANCOM 1781-4G (CC) provides certified protection against cyber attacks to cross-site networks with pronounced security requirements and to critical infrastructures.

More performance.

The LANCOM 1781-4G (CC) provides a balanced and modern hardware platform for a reliable operation of enterprise networks around the clock. As a professional business router, the device meets with high standards in the areas of network virtualization, security, and VPN networking. At the same time, its computing power, storage capacity, and the high-speed interfaces ensure excellent network performance even at times of heavy data traffic.

More virtualization.

The LANCOM 1781-4G (CC) helps you to use your IT resources more efficiently and save costs. The device can simultaneously support multiple, independent networks. This is made possible by the powerful technology Advanced Routing and Forwarding (ARF). The ARF function on the LANCOM 1781-4G (CC) provides up to sixteen virtual networks, each with its own routing and firewall settings.

The LANCOM security pledge.

LANCOM Systems GmbH is a German enterprise, with German management board, which is not subject to legal regulations or the influence of other states, requiring the implementation of backdoors or allow the sniffing of unencrypted data. The LANCOM portfolio for high-security site connectivity provides networks of enterprises and public authorities a comprehensive, guaranteed backdoor-free, and BSI-certified protection (CC EAL 4+) against cyber attacks.

LTE modem	
Supported standards	LTE, UMTS, HSPA, Edge and GPRS support (mode of transmission automatically or manually adjustable)
LTE-bands	800/900/1800/2100/2600 MHz (automatically or manually adjustable)
UMTS and HSPA bands	900/2100 MHz
EDGE/GPRS bands	850/2100 MHz
Maximum transmission power UMTS/HSxPA	+24 dBm
Diversity support	Receive diversity on the aux antenna (2G + 3G); MIMO (2x2) for LTE (4G)
GPS	GPS positioning with optional external GPS antenna (accessory)
Supported SIM card formats	Mini-SIM (2FF), Micro-SIM (3FF) via adaptor, Nano-SIM (4FF) via adaptor
Multi-SIM support	Is supported
SIM pin	Changing of SIM pin via LANconfig or CLI (command line interface)
Firewall	
Packet filter	Check based on the header information of an IP packet (IP or MAC source/destination addresses; source/destination ports, DiffServ attribute); remote-site dependant and direction dependant
Extended port forwarding	Network Address Translation (NAT) based on protocol and WAN address, i.e. to make internal webservers accessible from WAN
N:N IP address mapping	N:N IP address mapping for translation of IP addresses or entire networks
Tagging	The firewall marks packets with routing tags, e.g. for policy-based routing; Source routing tags for the creation of independent firewall rules for different ARF contexts
Actions	Forward, drop, reject, block sender address, close destination port, disconnect
Notification	SYSLOG (internally)
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
Password protection	Password-protected configuration access can be set for each interface
Alerts	Alerts via SYSLOG (internally)
Authentication mechanisms	PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism
GPS anti-theft	Network protection via site verification by GPS positioning, device stops operating if its location is changes
Adjustable reset button	Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
High availability / redundancy	
FirmSafe	For completely safe software upgrades thanks to two stored firmware versions, incl. test mode for firmware updates
LTE-Backup	In case of failure of the main connection, a backup connection is established over the internal LTE modem; automatic return to the main connection
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	
Number of VPN tunnels	Max. number of concurrent active IPSec and PPTP tunnels (MPPE): 5 (25 with VPN 25 Option). Unlimited configurable connections. Configuration of all remote sites via one configuration entry when using the RAS user template or Proadaptive VPN.
Hardware accelerator	Integrated hardware acceleration for ESP encryption and decryption (data path)
Realtime clock	Integrated, buffered realtime clock to save the date and time during power failure. Assures timely validation of certificates in any case

VPN	
Random number generator	Generates high-quality randomized numbers in software
IKE	IPSec key exchange with Preshared Key or certificate (in software)
Certificates	X.509 digital self signed certificates (no CA support), compatible with OpenSSL, upload of PKCS#12 files via SCP. Secure Key Storage protects a private key (PKCS#12) from theft
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 routes via RIPv2 if required
Algorithms	AES (128, 192 or 256 bit) and HMAC with SHA-1 / SHA-256 hashes
NAT-Traversal	NAT-Traversal (NAT-T) support for VPN over routes without VPN passthrough
1418-byte frame size UDP	90 Mbps
Firewall throughput (max.)	
1518-byte frame size UDP	123 Mbps
Routing functions	
Router	IP-Router
Advanced Routing and Forwarding	Separate processing of 16 contexts due to virtualization of the routers. Mapping to VLANs and complete independent management and configuration of IP networks in the device. Automatic learning of routing tags for ARF contexts from the routing table
Policy-based routing	Policy-based routing based on routing tags. Based on firewall rules, certain data types are marked for specific routing, e.g. to particular remote sites or lines
Dynamic routing	Propagating routes; separate settings for LAN and WAN. Extended RIPv2 including HopCount, Poisoned Reverse, Triggered Update for LAN (acc. to RFC 2453) and WAN (acc. to RFC 2091) as well as filter options for propagation of routes. Definition of RIP sources with wildcards
Layer 2 functions	
VLAN	VLAN ID definable per interface and routing context (4,094 IDs) IEEE 802.1q
ARP lookup	Packets sent in response to LCOS service requests (SSH) via Ethernet can be routed directly to the requesting station (default) or to a target determined by ARP lookup
LAN protocols	
IP	ARP, Proxy ARP, IP, ICMP, PPPoE (Server), RIP-2 (Propagation), TCP, UDP
WAN protocols	
Ethernet	PPPoE, Multi-PPPoE, ML-PPP, IPoE, VLAN, IP
WAN operating mode	
xDSL (ext. modem)	ADSL1, ADSL2 or ADSL2+ with external ADSL2+ modem
UMTS/LTE	GPRS, Edge, UMTS, HSPA or LTE with internal mobile modem
Interfaces	
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
Serial interface	Serial configuration interface / COM port (8 pin Mini-DIN): 9,600 - 115,000 baud
External antenna connectors	Two SMA antenna connectors for external LTE antennas (Ant 1, Ant 2) additional connector for optional GPS antenna (not included in package content)
Management	
Device SYSLOG	SYSLOG buffer in the RAM (size depending on device memory) to store events for diagnosis. Default set of rules for the event protocol in SYSLOG. The rules can be modified by the administrator. Display and saving of internal SYSLOG buffer (events) from LANCOM devices.
Remote maintenance	Remote configuration with SSH in software

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CE EN 60950-1, EN 301 489-1, EN 301 489-24 CC certification LCOS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DS2-CC-0815" at the German Federal Office for Information Security *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.de/en Scope of delivery Wanal Hardware Quick Reference (EN, DE), Installation Guide (DE/EN/FR/ES/IT/PT/NL) CD/DVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Cable 1 Ethernet cable, 3 m Antennas Two 2 dBi Edge/UMTS/LTE-antennas GPS antenna Passive GPS antenna can be ordered free of charge with enclosed voucher 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 Support Warranty VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715	Power consumption (max)	approx. 10 Watts		
CC certification LCOS certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DS2-CC-0815" at the German Federal Office for Information Security *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.de/en Scope of delivery Manual Hardware Quick Reference (EN, DE), Installation Guide (DE/EN/FR/ES/IT/PT/NL) CD/DVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Cable 1 Ethernet cable, 3 m Antennas Two 2 dBi Edge/UMTS/LTE-antennas GPS antenna Passive GPS antenna can be ordered free of charge with enclosed voucher 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 Support Warranty VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715	Declarations of conformity*			
at the German Federal Office for Information Security At the German Federal Office for Information Security *) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.de/en Scope of delivery Manual Hardware Quick Reference (EN, DE), Installation Guide (DE/EN/FR/ES/IT/PT/NL) CD/DVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Cable 1 Ethernet cable, 3 m Antennas Two 2 dBi Edge/IUMTS/LTE-antennas GPS antenna Passive GPS antenna can be ordered free of charge with enclosed voucher 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 Support Warranty VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715 Accessories LANCOM Warranty Advanced Option S, item no. 10715	CE	EN 60950-1, EN 301 489-1, EN 301 489-24		
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GPS antenna Passive GPS antenna can be ordered free of charge with enclosed voucher 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 Support Warranty Warranty 3 years Options LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715	Cable	1 Ethernet cable, 3 m		
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 Support Support Warranty 3 years Options IANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715	Antennas	Two 2 dBi Edge/UMTS/LTE-antennas		
Support Warranty 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715 Accessories Image: Comparison of the state of the sta	GPS antenna	Passive GPS antenna can be ordered free of charge with enclosed voucher		
Warranty 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715	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		
Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715 Accessories Image: Comparison of the state of the s	Support			
VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715	Warranty	3 years		
Warranty Extension LANCOM Warranty Basic Option S, item no. 10710 Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715 Accessories Image: Comparison of Compari	Options			
Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715 Accessories	VPN	LANCOM VPN-25 Option (25 channels), item no. 60083		
Accessories	Warranty Extension	LANCOM Warranty Basic Option S, item no. 10710		
	Warranty Extension & Advanced Replacement	LANCOM Warranty Advanced Option S, item no. 10715		
LANCOM CC Start-up Kit All-in-one package for the certified start-up and highly secure configuration of LANCOM CC products based on CC EAL 4+, item no. 62910	Accessories			
	LANCOM CC Start-up Kit	All-in-one package for the certified start-up and highly secure configuration of LANCOM CC products based on CC EAL 4+, item no. 62910		
External antenna AirLancer Extender 0-360-3G 4 dBi omnidirectional GSM/GPRS/EDGE/3G outdoor antenna, item no. 61225	External antenna	AirLancer Extender O-360-3G 4 dBi omnidirectional GSM/GPRS/EDGE/3G outdoor antenna, item no. 61225		
External antenna AirLancer Extender I-360-3G 2dBi GSM/GPRS/EDGE, 5dBi 3G, omnidirectional indoor antenna, item no. 60916	External antenna	AirLancer Extender I-360-3G 2dBi GSM/GPRS/EDGE, 5dBi 3G, omnidirectional indoor antenna, item no. 60916		
External antenna AirLancer Extender 0-360-3G omnidirectional GSM/GPRS/EDGE/3G/LTE outdoor antenna, item no. 61227	External antenna	AirLancer Extender O-360-3G omnidirectional GSM/GPRS/EDGE/3G/LTE outdoor antenna, item no. 61227		

Accessories		
External antenna	AirLancer Extender I-360-4G, +2.5 dBi 4G/3G/2G antenna, 698-960 and 1710-2700 MHz, omnidirectional MIMO indoor antenna, item no. 60918	
19" Rack Mount	19" Rackmount-Adapter, ArtNr. 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	
Item number(s)		
LANCOM 1781-4G (EU, CC)	62604	
LANCOM 1781-4G (UK, CC)	62614	

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