

High-performance VPN router with ADSL2+ and LTE/4G modem for highly secure site connectivity

- Certified IT security "Made in Germany" CC EAL 4+ compliant
- Ideal for highly secure site connectivity and the protection of critical sub-areas
- Intelligent backup scenarios either via ADSL2+ or LTE for business-critical operations
- Secure VPN site connectivity with 5 simultaneous IPSec VPN channels (optionally 25 channels)
- 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 1781A-4G (CC) is ideal for public authorities, institutions, and commercial organizations that need a high level of security in their data communications: The LANCOM 1781A-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 1781A-4G (CC) comes with a field-proven scope of functionalities and interfaces. Comprehensive VPN functions enable remote sites to access the company network securely. Thanks to its integrated ADSL2+ modem, LTE/4G modem, and powerful firewall, the LANCOM 1781A-4G (CC) offers secure connections to the Internet over a standard DSL connection — without any additional hardware. The option to operate four Internet connections at a single device makes the LANCOM 1781A-4G (CC) the ideal platform for high traffic.

More data security.

Certified IT security: Made in Germany. The LANCOM 1781A-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 1781A-4G (CC), which an independent body has methodically examined and tested to level 4. Hence, the LANCOM 1781A-4G (CC) provides certified protection against cyber attacks to cross-site networks with pronounced security requirements and to critical infrastructures.

More performance.

The LANCOM 1781A-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 1781A-4G (CC) helps to make effective and economical use of IT resources. 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 1781A-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.

Upported standards LTE, UMTS, HSPA, Edge and GPRS support (mode of transmission automatically or manually adjustable) IF-bands 8009007180021002600 MHz (automatically or manually adjustable) MTS and HSPA bands 9002100 MHz 850900718001900 MHz Asaimum transmission power UMTSHSPA +24 dBm Neestly support Receive diversity on the aux antenna (26 + 36); MIMO (2x2) for LTE (4G) PS GPS positioning with optional external GPS antenna (accessory) upported SIM card formats Min-SIM (2FB, Micro SIM (3FB) via adaptor, Nano-SIM (4FB) via adaptor Nutri-SIM support Is supported Is supported In pin Changing of SIM pin via LANconfig or CLI (command line interface) Investil acker filter Check based on the header information of an IP packet (IP or MAC source/destination addresses; source/destination ports, Dil'IServ attribute); remote-site dependant and direction dependant vixended port forwarding Network Address Translation (NAT) based on protocol and WAN address, i.e. to make internal webservers accessible from WAN NEW Paddress mapping 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 ART contexts returnion Forward, fron, reject, block sender address, close destination port, disconnect SysLOG (internally) security Function Source IP address check on all interfaces only IP addresses belonging to the defined IP networks are allowed coess control lists Filtering of IP or MAC addresses and preset protocols for configuration access seriol of Service protection Protection from fragmentation errors and SYN Nooling absent of Service protection Protection from fragmentation errors and SYN Nooling absent of Service protection Password protection via site verification by GPS positioning, device stops operating if its location is changes diplication except button for 'ignore', 'boot-only' and 'reset-or-boot'
TE-bands 800/900/1800/2100/2600 MHz (automatically or manually adjustable) MTS and HSPA bands 900/2100 MHz 850/900/1800/1900 MHz Assimum transmission power UMTS/HSRAP 4-24 dBm Westrijk support Receive diversity on the aux antenna (2G + 3G); MIMO (2x) for LTE (4G) PS GPS positioning with optional external (2F3 antenna (3ccessory) upported SIM card formats Min-SIM (2FF), Micro-SIM (3FF) wa adaptor, Nano-SIM (4FF) wis adaptor flutit-SIM support Is supported IM pin Changing of SIM pin via LANconfig or CLI (command line interface) irrevall acket 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 ventured port forwarding Network Address Translation of IP addresses or entire networks N.N. IP address mapping N.N. P address mapping for translation of IP addresses or entire networks 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 ART comeans citions Forward, drop, reject, block sender address, close destination port, disconnect strictions Systo. G (internally) striction Monitoring and blocking of login attempts and port scans Posporling Source IP address check on all interfaces, only IP addresses belonging to the defined IP networks are allowed coess control lists Filtering of IP or MAC addresses and preset protocols for configuration access eneral D Service protection Protection from flagmentation errors and SYN Booding lenters Alerts via SYSLOG (internally) subtentication mechanisms PAP, CHAP, MS-CHAP and MS-CHAP-2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAP-2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAP-2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAP-2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAP-2 as PPP authentication mechanism
MSS and HSPA bands 900/2100 MHz 850/900/1800/1900 MHz 424 d8m Receive diversity on the aux antenna (2G + 3G); MIMO (2x2) for LTE (4G) FS GPS positioning with optional external GPS antenna (accessory) upported SIM card formats Mini-SIM (2FF), Micro-SIM (2FF), Micro-SIM (3FF) via adaptor, Nano-SIM (4FF) via adaptor Null-SIM support Is supported Ma pin Changing of SIM pin via LANconfig or CLI (command line interface) irevall acket 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 increased adjects and addresses; source/destination ports, Diffserv attribute); remote site dependant and increased adjects and addresses; source/destination increased adjects and present protocols for configuration port, disconnect cutions Forward, drop, reject, block sender address, close destination port, disconnect cutions Source IP address and present protocols for configuration access Popoling Source IP address check on all interfaces only IP addresses belonging to the defined IP networks are allowed Excess control lists Filtering of IP or MAC addresses and preset protocols for configuration access enial of Service protection Protection from fragmentation errors and SYN flooding assword protection Protection from fragmentation errors and SYN flooding assword protection Protection from fragmentation errors and SYN flooding assword protection Protection from fragmentation errors and SYN flooding application devices to spon perating if its location is changes Alerts via SYSLOG (internally) authentication mechanisms
BeGGPRS bands 850/900/1800/1900 MHz Asximum transmission power UMTS/HSXPA 424 dBm Asximum transmission power UMTS/HSXPA 424 dBm Asximum transmission power UMTS/HSXPA 424 dBm Receive diversity outport Receive diversity on the aux antenna (2G + 3G); MIMO (2x2) for LTE (4G) GPS positioning with optional external GPS antenna (accessory) upported SIM card formats Mini-SIM OEFD, Micro-SIM GFF), Micro-SIM GFF) via adaptor, Nano-SIM (4FF) via adaptor Is supported Mit pin Changing of SIM pin via LANconfig or CLI (command line interface) irrowall acket filter Check based on the beader information of an IP packet (IP or MAC source/destination addresses; source/destination ports, DiffServ attribute); remote-site dependant and direction dependant vermote-site dependant and direction dependant EN IP address mapping Network Address Translation (MAT) based on protocol and WAN address, i.e. to make internal webservers accessible from WAN N.N IP address mapping 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 citions Forward, drop, reject, block sender address, close destination port, disconnect officiation SYSLOG (internally) corriv trusion Prevention Monitoring and blocking of login altempts and port scans Source IP address check on all interfaces; only IP addresses belonging to the defined IP networks are allowed Filtering of IP or MAC addresses and preset protocols for configuration access entered Detailed settings for handling reasembly, PING, stealth mode and AUTH port assword protection Protection from fragmentation errors and SYN flooding Protection mechanisms PAP, CHAP, MS-CHAP and MS-CHAPV2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAPV2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAPV2 as PPP authentication in specialing if its location is changes
Assimum transmission power UMTS/HSAPA Receive diversity on the aux antenna (2G + 3G); MIMO (2x2) for LTE (4G) PS GPS positioning with optional external GPS antenna (accessory) upported SIM card formats Mini-SIM (2FF), Micro-SIM (3FF) via adaptor, Nano-SIM (4FF) via adaptor Interior Mix support In pin Changing of SIM pin via LANconfig or CLI (command line interface) Interior Mix support 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 Interior Interior Mix support Acket 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 Interior Inte
Receive diversity on the aux antenna (2G + 3G); MIMO (2x2) for LTE (4G) PS GPS positioning with optional external GPS antenna (accessory) upported SIM card formats Mini-SIM (2FF), Micro-SIM (3FF) via adaptor, Nano-SIM (4FF) via adaptor luth-SIM support Is supported IM pin Changing of SIM pin via LANconfig or CLI (command line interface) trewall acted 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 xtended port forwarding Network Address Translation (NAT) based on protocol and WAN address, i.e. to make internal webservers accessible from WAN IN IP address mapping Nh IP address mapping for translation of IP addresses or entire networks agging 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 citions Forward, drop, reject, block sender address, close destination port, disconnect strictions SYSLOG (internally) curricular Pevention Monitoring and blocking of login attempts and port scans P spoofing Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed cress control lists Fillering of IP or MAC addresses and preset protocols for configuration access enial of Service protection Protection from fragmentation errors and SYN flooding eneral Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface lefts Alerts via SYSLOG (internally) withentication mechanisms PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism PS anti-theft Network protection via site verification by GPS positioning, device stops operating if its location is changes distable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
GPS positioning with optional external GPS antenna (accessory) upported SIM card formats Mini-SIM (2FF), Micro-SIM (3FF) via adaptor, Nano-SIM (4FF) via adaptor futti-SIM support Is supported IM pin Changing of SIM pin via LANconfig or CLI (command line interface) irewall acket 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 xtended port forwarding Nebvork Address Translation (NAT) based on protocol and WAN address, i.e. to make internal webservers accessible from WAN IN IP address mapping Nn IP address mapping for translation of IP addresses or entire networks agging 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 forward, drop, reject, block sender address, close destination port, disconnect strusion Forward, drop, reject, block sender address, close destination port, disconnect strusion Prevention Monitoring and blocking of login attempts and port scans Poporfing Source IP addresses check on all interfaces: only IP addresses belonging to the defined IP networks are allowed file trition of the protection from fragmentation errors and SYN flooding eneral Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface lefts Alerts via SYSLOG (internally) withentication mechanisms PAP, CHAP, MS-CHAP and MS-CHAPP2 as PPP authentication mechanism PS anti-theft Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
upported SIM card formats Mini-SIM (2FF), Micro-SIM (3FF) via adaptor, Nano-SIM (4FF) via adaptor Its supported Its supported It is supported It is supported It is supported Changing of SIM pin via LANconfig or CLI (command line interface) Iterwall acket 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 Attended 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 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 Citions Forward, drop, reject, block sender address, close destination port, disconnect SYSLOG (internally) **Cecurity** **Intrusion Prevention** Monitoring and blocking of login attempts and port scans Popoling Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed **Cecess control lists** Filtering of IP or MAC addresses and preset protocols for configuration access **Lenial of Service protection** Protection from fragmentation errors and SYN flooding **Lenial of Service protection** Protection from fragmentation errors and SYN flooding **Lenial of Service protection** Password-protected configuration access can be set for each interface **Lenial of Service protection** Password-protected configuration access can be set for each interface **Lenial Sylva Sy
Its supported IM pin Changing of SIM pin via LANconfig or CLI (command line interface) Intervall Acket 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 Ackended port forwarding Network Address Translation (NAT) based on protocol and WAN address, i.e. to make internal webservers accessible from WAN IN IP address mapping Nah IP address mapping for translation of IP addresses or entire networks 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 Citions Forward, drop, reject, block sender address, close destination port, disconnect SYSLOG (internally) Country Thrusion Prevention Monitoring and blocking of login attempts and port scans Popoling Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed Coccess control lists Filtering of IP or MAC addresses and preset protocols for configuration access Lenial of Service protection Protection from fragmentation errors and SYN flooding Leneral Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface Letts Alerts via SYSLOG (internally) Letter Schape Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
In pin Changing of SIM pin via LANconfig or CLI (command line interface) Irewall acket 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 Network Address Translation (NAT) based on protocol and WAN address, i.e. to make internal webservers accessible from WAN Network Address mapping Network Address mapping for translation of IP addresses or entire networks agging 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 AAF contexts Address mapping Around the creation of independent firewall rules for different AAF contexts Addressed in 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 AAF contexts Addressed in the firewall rules for different AAF contexts Alerts on Provard, drop, reject, block sender address, close destination port, disconnect Addressed in the firewall rules for different AAF contexts Addressed in the firewall rules for different AAF contexts Addressed in the firewall rules for different AAF contexts Alerts on the firewall rules for different AAF contexts Adjustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot' Adjustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
acket 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 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 agging 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 citions Forward, drop, reject, block sender address, close destination port, disconnect SYSLOG (internally) **Country** **Country** **Country** **Country** **Country** **Monitoring and blocking of login attempts and port scans Source IP addresses check on all interfaces: only IP addresses belonging to the defined IP networks are allowed **Cocess control lists** Filtering of IP or MAC addresses and preset protocols for configuration access **Lenial of Service protection** Protection from fragmentation errors and SYN flooding Beneral Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface **Leris** **Alerts via SYSLOG (internally) **App, CHAP, MS-CHAP and MS-CHAPV2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAPV2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAPV2 as PPP authentication mechanism **PS anti-theft** **Network protection via site verification by GPS positioning, device stops operating if its location is changes **Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
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 xtended 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 agging 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 ctions Forward, drop, reject, block sender address, close destination port, disconnect SYSLOG (internally) eccurity trusion Prevention Monitoring and blocking of login attempts and port scans Poporting Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed ccess control lists Filtering of IP or MAC addresses and preset protocols for configuration access tenial of Service protection Protection from fragmentation errors and SYN flooding Leneral Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface Alerts via SYSLOG (internally) uthentication mechanisms PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism Network protection via site verification by GPS positioning, device stops operating if its location is changes digustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
remote-site dependant and direction dependant xtended 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 agging 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 ctions Forward, drop, reject, block sender address, close destination port, disconnect systog (internally) ecurity ntrusion Prevention Monitoring and blocking of login attempts and port scans source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed ccess control lists Filtering of IP or MAC addresses and preset protocols for configuration access tenial of Service protection Protection from fragmentation errors and SYN flooding teneral Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface Alerts via SYSLOG (internally) attentication mechanisms PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism 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'
N:N IP address mapping N:N IP address mapping or translation of IP addresses or entire networks 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 Citions Forward, drop, reject, block sender address, close destination port, disconnect SYSLOG (internally) ecurity Monitoring and blocking of login attempts and port scans Popofing Source IP address check on all interfaces; only IP addresses belonging to the defined IP networks are allowed cocess control lists Filtering of IP or MAC addresses and preset protocols for configuration access tenial of Service protection Protection from fragmentation errors and SYN flooding teneral Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface lefts Alerts via SYSLOG (internally) uthentication mechanisms PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism PS anti-theft Network protection via site verification by GPS positioning, device stops operating if its location is changes digustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
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 Forward, drop, reject, block sender address, close destination port, disconnect SYSLOG (internally) ecurity Thrusion Prevention Monitoring and blocking of login attempts and port scans Popoofing Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed cocess control lists Filtering of IP or MAC addresses and preset protocols for configuration access renial of Service protection Protection from fragmentation errors and SYN flooding seeneral Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface leters Alerts via SYSLOG (internally) suthentication mechanisms PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism Network protection via site verification by GPS positioning, device stops operating if its location is changes djustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
different ARF contexts ctions Forward, drop, reject, block sender address, close destination port, disconnect lotification SYSLOG (internally) ccurity Tutusion Prevention Monitoring and blocking of login attempts and port scans Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed ccess control lists Filtering of IP or MAC addresses and preset protocols for configuration access lenial of Service protection Protection from fragmentation errors and SYN flooding leneral Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface leters Alerts via SYSLOG (internally) uthentication mechanisms PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism PS anti-theft Network protection via site verification by GPS positioning, device stops operating if its location is changes djustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
ecurity Attrusion Prevention Monitoring and blocking of login attempts and port scans Popoofing Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed cocess control lists Filtering of IP or MAC addresses and preset protocols for configuration access Protection from fragmentation errors and SYN flooding period between the protection Protection from fragmentation errors and SYN flooding period between the protocols for configuration access protection period between the protocols for configuration access period between the protection period between the period between the protection period between the period between
ntrusion Prevention Monitoring and blocking of login attempts and port scans Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed cocess control lists Filtering of IP or MAC addresses and preset protocols for configuration access renial of Service protection Protection from fragmentation errors and SYN flooding Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface Alerts via SYSLOG (internally) Alerts via SYSLOG (internally) PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism PS anti-theft Network protection via site verification by GPS positioning, device stops operating if its location is changes djustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
Monitoring and blocking of login attempts and port scans 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 Protection from fragmentation errors and SYN flooding Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface Alerts via SYSLOG (internally) Alerts via SYSLOG (internally) PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism 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'
Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed Cocess control lists Filtering of IP or MAC addresses and preset protocols for configuration access Protection from fragmentation errors and SYN flooding Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface Alerts Alerts via SYSLOG (internally) PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism 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'
Filtering of IP or MAC addresses and preset protocols for configuration access renial of Service protection Protection from fragmentation errors and SYN flooding Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword 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 Adjustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
Protection from fragmentation errors and SYN flooding Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword protection Password-protected configuration access can be set for each interface Alerts via SYSLOG (internally) DAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism 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'
Detailed settings for handling reassembly, PING, stealth mode and AUTH port assword 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 PS 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'
assword protection Password-protected configuration access can be set for each interface Alerts via SYSLOG (internally) PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism PS anti-theft Network protection via site verification by GPS positioning, device stops operating if its location is changes djustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
Alerts via SYSLOG (internally) Alerts via SYSLOG (internally) Alerts via SYSLOG (internally) PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism 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'
Adjustable reset button PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanism Network protection via site verification by GPS positioning, device stops operating if its location is changes djustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
Network protection via site verification by GPS positioning, device stops operating if its location is changes djustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
djustable reset button Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
ligh availability / redundancy
irmSafe For completely safe software upgrades thanks to two stored firmware versions, incl. test mode for firmware updates
TE-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
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)
ine monitoring Line monitoring with LCP echo monitoring, dead-peer detection and up to 4 addresses for end-to-end monitoring with ICMP polling
PN
Iumber 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.
lardware accelerator Integrated hardware acceleration for ESP encryption and decryption (data path)
lntegrated, 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	
<u> </u>		
IKE Certificates	IPSec key exchange with Preshared Key or certificate (in software) 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		
ADSL, Ethernet	PPPOE, PPPOA, IPOA, Multi-PPPOE, ML-PPP, VLAN	
WAN operating mode		
xDSL	ADSL1, ADSL2 or ADSL2+ with internal ADSL2+ modem	
xDSL (ext. modem)	ADSL1, ADSL2 or ADSL2+ with external ADSL2+ modem	
UMTS/LTE	GPRS, Edge, UMTS, HSPA or LTE with internal mobile modem	
Interfaces		
WAN: ADSL2+	 Compliant to: ADSL2+ as per ITU G.992.5 Annex A/Annex B/Annex J/Annex M with DPBO, ADSL2 as per ITU G.992.3 Annex A/Annex B/Annex J/Annex M, ADSL as per ITU.G.992.1 Annex A/Annex B Supports one virtual ATM circuit (VPI, VCI pair) at a time 	
	Compliant to: Deutsche Telekom U-R2 (1TR112)	
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	

STACLO Enterior in the BANA (size depending on device memory) to store events for diagnosis. Default start of rules for the event protocol in \$75,005. The subsect are in emodified by the administrator. Display and several of internal \$750.05. Unifer (events) from LANCOM devices. Berroto mainternance Sene device and in emodified by the administrator. Display and several of internal \$750.05. Unifer (events) from LANCOM devices. SSN 6 Telent client. SSN 6 Telent function of softwards compatible to Open SSN under Linux and Unix operating systems for accessing third-party components from a LANCOM device. Support for emificate and password based authentication. SSN 6 Telent functions are remotived to administration with appropriating of all on the LANCOM device. Support for emificate and password based authentication. Sorting and the second of parameters and a trade of the set appropriating of all on the second configurations, impactive of software resisting and device types, incl. test noted for parameter changes. Utilization of lined control (SSN) or convection establishment and termination are series and device types, incl. test noted for parameter changes. Utilization of lined control (SSN) or convection establishment and termination. Timed control Scheduler control of parameters and a trade of the series of the series of the series of the series of the series. Selections Extensive Extensive Extensive Etherner and It statistics Accounting Connection time, or time time, transfer evilumes per salation. Suspiriol function for regular read-out of values at the end of a billing period. Timed (SRN) command to neeral all counters at ance. Resolutions Extensive Extensive Etherner and It statistics Accounting Connection time, or time time, transfer evilumes per salation. Suspiriol function for regular read-out of values at the end of a billing period. Timed (SRN) command to neeral all counters at ance. Solution 1				
The rules can be modified by the administrance. Display and saving of internal SYSI OS buffer (exeast) from LAKCOM desices. Remote nationauxe. Staff Teinet client Access rights (readworth one SWA) or LAK can be set up separately (SSI), access control list Scripting Access rights (readworth over WAN or LAK can be set up separately (SSI), access control list Scripting Scripting function for hatch-paperaments of all commands line parenters and for transfering partially configurations, irreportive of software ventions and desice types, and team mode for parameter changes. Utilization of firmed control (CRON) or connection establishment and termination to una script for antiformation. Timed control Scheduled control of parameters and outlooks with CRON service Diagnosis Extensive ICIG and TRACT options, PINIG and TRACT RIDUIT for checking connections, internal logging buffer for firewall events, monitor mode for themselves and transfer and traces. Stafficial Extensive ICIG and TRACT options, PINIG and TRACT RIDUIT for checking connections, internal logging buffer for firewall events, monitor mode for themselves. Stafficial Extensive ICIG and TRACT options, PINIG and TRACT RIDUIT for checking connections, internal logging buffer for firewall events, monitor mode for themselves. Stafficial Extensive ICIG and TRACT options, PINIG and TRACT RIDUIT for checking connections, internal logging buffer for firewall events, monitor mode for themselves. Stafficial Extensive ICIG and TRACT options, PINIG and TRACT RIDUIT for checking connections, internal logging buffer for firewall events, monitor mode for themselves. Stafficial Extensive ICIG and TRACT options, PINIG and TRACT RIDUIT for checking connections, internal logging buffer for firewall events, monitor mode for themselves. Stafficial Extensive ICIG and TRACT options, PINIG and TRACTROUIT for checking connections, internal logging buffer for firewall events, monit	Management			
SSH E Tainet client SSH client function (in software) computable to Open SSH under Linux and Unix operating systems for accessing third-party components from a LANCOM device. Support for certificate and password-based authentication. SSH delical functions in restracted to administration with supporting registration for SSH delical functions in restracted to administration with supporting registration. SSH delical functions in restracted to administration with supporting (SSH), access centred last. Scripting Scripting function for harby-inpoperating of all commands files partners and for removing gotalial configurations, inreportion of stronger configurations, inreportion of software versions and device pages, led them mode for parameter changes. Unlikation of timed control (CAON) or connection establishment and termination to un scripts for administration and actions with CRON xervice. Scripting Scripting Scripting Scripting Scripting function for harby-inpoperating of all commands files partners and or contention establishment and termination to un scripts for administration of timed control (CAON) or connection establishment and termination to un scripts for administration in scripting function for investigation for firewall events, monitor mode for Embedding CAON xervice Scripting Scripting Scripting Scripting Defended control of parameters and actions with CRON xervice Connection time, crimine line, crimine line, transfer velumes per station. Strapshot function for regular read-out of values at the end of a billing period. Timed (CRON) command for most all counters at once Hordware Weight 1.23 lbs (SSO g) Power supply 1.24 lbs, period gibbs and power adapter (230 V) with bayone capt to protect against accidentally unplugging Embersoment Prover supply with a power adapter (230 V) xervice confereing Notes Senters design without rotating parts, high MTBF Powers acquired from the products section of our webotic at vowsu baccome systems, delice CCCertification CCCCertification Lock Conf	Device SYSLOG			
ARCOM router Also usable when working with 591 to Ogin to the LANCOM device, Support for certificate- and password-based authentication.	Remote maintenance	Remote configuration with SSH in software		
Scripting Scripting Incrican for batch-programming of all command line parameters and for transferring (partial) configurations, irrespective of software versions and electric types, Incl. last mode for parameters and for transferring (partial) configurations, irrespective of software versions and electric types, Incl. last mode for parameter and particle of transection (ERON) or correction establishment and termination for inscription and control of parameters and actions with CRON service Diagnosis Scripting Settensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for frewall events, monitor mode for Ethernet ports Statistics Estensive Ethernet and IP statistics Accounting Crono connection time, transfer volumes per station. Snapshot function for regular read-out of values at the end of a billing period. Timed (CRON) command to reset all counters at once Hardware Weight 1,23 lbs (550 g) Power supply 1,24 DC, external power adapter (230 t) with bayconet cap to protect against accidentally unplugging Entironment 1,24 DC, external power adapter (230 t) with bayconet cap to protect against accidentally unplugging Entironment 2,25 Wasts 2	SSH & Telnet client	LANCOM router. Also usable when working with SSH to login to the LANCOM device. Support for certificate- and password-based authentication.		
versions and device types. Inc. test mode for parameter changes. Utilization of timed control (CRON) or connection establishment and termination to run scripts for automation. Timed control Scheduled control of parameters and actions with CRON service Estensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for firewall events, monitor mode for Ethernet ports Sensitics Sensitics Estensive Ethernet and IP statistics Accounting Connection time, online time, transfer volumes per station. Snapshot function for regular read-out of values at the end of a billing period. Timed (RCON) command to reset all counties at once Nardware Weight 1,23 lbs (560 g) 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Fine continued and the properties of the statistic properties of the work of the properties of the statistic pro	Security	Access rights (read/write) over WAN or LAN can be set up separately (SSH), access control list		
Extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for firewall events, monitor mode for Etherica pots Statistics Extensive Ethernet and IP statistics Accounting Connection time, entine time, transfer volumes per station. Snapshot function for regular read-out of values at the end of a billing period. Timed (CROW) command to reset all counties at once Hardware Weight 1, 23 lbs (560 g) Power supply 1, 21 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Emperature range 5–40° C; humidity 0–95%; non-condensing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x.45 x.140 mm (W x H x D) Ears Power consumption (max) 1, 25 Wats Declarations of conformity* EE EN 60950-1, EN 55022, EN 55024 EC entification 1 Loc Scarlication based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BS-DSZ-CC-BIS" at the German deal Office for Information Security 7) Note 7 you will find all declarations of conformity in the products section of our website at www.lancom-systems.defen Stopper of delivery Manual Hardware Quick Reference (EN, DE), Installation Guide (DE/EN/ER/ES/IT/PTNI) CDDVD Data medium with firmware, management software (LANconfig., LANmonitor, LANCAPI) and documentation Cable ADSI cable, 3m Antennas 1 the cerna and be ordered free of charge with enclosed voucher Power supply unit 2 sternal power adapter (230 V), NEST 12 V/1.5 A DCS, coaxial power connector 2.1:5.5 mm bayonet, temperature range from -5 to +45° C Support VEN LANCOM VPN-25 Option (25 channels), item no. 10008 Warranty Exension 4 ANCOM Warranty Basic Option S, item no. 10710	Scripting	versions and device types, incl. test mode for parameter changes. Utilization of timed control (CRON) or connection establishment and termination		
Statistics Statistics Statistics Statistics Statistics Sconnection time, online time, transfer volumes per station. Snapshot function for regular read-out of values at the end of a billing period. Timed (RON) command to reset all counters at once Working Working Weight 1,23 lbs (S60 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Enviconment Temperature range 5-40° C; humidily 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) Fams None; fanless design without rotating parts, high MTBF Power consumption (max) 2, 5 Watts Detarations of conformity* CC certification CC certification LOS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-CC 8815" at the German Federal Office for Information Security 1) Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.de/en Scoperations COPYOP Data medium with firmware, management software (LANconfig, LANmontor, LANCAPI) and documentation Cable 1 Ethernet coble, 3 m Antennas Apst. cable, 3m Antennas Apst. cable, 3m Antennas GPS antenna Apst. cable, 3m Antennas Antennas Apst. cable, 3m Ant	Timed control	Scheduled control of parameters and actions with CRON service		
Satisfics Extensive Ethernet and IP Statisfics Accounting Connection time, orline time, transfer volumes per station. Snapshot function for regular read-out of values at the end of a billing period. Timed (Kohl) command to reset all counters at once Hardware Weight 1,23 lbs (560 g) Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 5-40° C; humidity 0-95%; non-condensing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans None; fanless design without rotating parts, high MTBF Power consumption (max) 12: Watts Extension of conformity* Extension of Conformity* Extension of Conformity* 10: Certification of LCOS certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-CC-0815" at the German Federal Office for Information Security 10 Note 20: Voice officiation 11: Conformity in the products section of our website at www. lancom-systems.de/en Except of delivey Manual Hardware Quick Reference (EN, DE), Installation Guide (DE/EN/FR/ES/IT/PT/INL) CDD/D Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Gable 1: Ethernet cable, 3 m Antennas Passe GPS antenna can be ordered free of charge with enclosed voucher Extension 20: ADSL cable, 3m Antennas Passe GPS antenna can be ordered free of charge with enclosed voucher Extension 3: Apas Support Warranty 3: Apas Support VPN LANCOM VPN-25 Option (25 channels), Item no. 60083 Warranty Extension 1. ANCOM Warranty Basic Option S, Item no. 60083 Warranty Extension 1. ANCOM Warranty Basic Option S, Item no. 60083	Diagnosis			
Accounting Connection time, online time, transfer volumes per station. Snapshot function for regular read-out of values at the end of a billing period. Time (KCRON) command to reset all counters at once Hordware Weight 1,23 lbs (560 g) 1 2 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging 1 Environment Temperature range 5-40° C, bundid ty 0-95 %; non-condensing 1 Housing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) 1 Fans None; fanless design without rotating parts, high MTBF 1 Power consumption (max) 12.5 Watts 1 CC entification (max) 12.5 Watts 1 CC entification of conformity* CE No 6950-1, EN 55022, EN 55024 1 CC entification 1 LoS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-CC-0815" at the German Federal Office for Information Security 1 7) Note 70 vall find all declarations of conformity in the products section of our website at www.lancom-systems.de/en 1 Scope of delivery Manual Hardware Quick Reference (EN, DE), Installation Guide (DE/ENTRE/SITIPTINI) CDDVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation 1 Cable ABS Leabe, 3m 1 Cable ABS Leabe, 3m 1 Antennas Two 2 dBi Edgel/UMTS/LTE-antennas 4 Foreward power adapter (230 V), NEST 12 VI.5 A DCS, cavial power connector 2.1/5.5 mm bayonet, temperature range from -5 to +45° C 1 Support Warranty 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Edension 1 LANCOM Warranty Basic Option S, item no. 60083 Warranty Edension 1 LANCOM Warranty Basic Option S, item no. 60083	Statistics			
Rardware Weight 1,23 lbs (560 g) Power supply 1,24 lbs (560 g) Power supply 1,24 lbs (560 g) Environment Temperature range 5-40° C, humidity 0-95%; non-condensing Housing Robust synthetic housing, ear 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 Power consumption (max) 12.5 Watts Declarations of conformity* CE EN 60850-1, EN 55022, EN 55024 CC certification LooS certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-CC-0815" at the German Federal Office for Information Security Y Note You will find all declarations of conformity in the products section of our website at www.lancom-systems.de/en Secure of delivery Manual Hardware Quick Reference (EN, DE), Installation Guide (DE/EN/FR/ES/IT/PI/NL) CO/DVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Cable ADSL cable, 3m Antennas To 2 dBi Edge/UMTS/LE-antennas GPS antenna Passive GPS antenna can be ordered free of charge with enclose	Statistics	Extensive Ethernet and IP statistics		
Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 5-40° 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 Power consumption (max) 12.5 Watts Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 CC certification a LCOS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "85I-DSZ-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 deliver Manual Hardware Quick Reference (EN, DE), Installation Guide (DEFEN/FRES/ITIP/INI) CD/DVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Cable 1Ethernet cable, 3 m Cable ADSL cable, 3m Antennas Two 2 dBi Edgar/LMTS/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 VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	Accounting			
Power supply 12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging Environment Temperature range 5–40° C: humidity 0–95%; non-condensing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans None; faniless design without rotating parts, high MTBF Power consumption (max) 12.5 Watts Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 CC certification LOCS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-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/EN/ES/IT/PT/NL) CD/DVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Cable ADSL 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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	Hardware			
Environment Temperature range 5-40° C; humidity 0-95%; non-condensing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D) Fans None; fanless design without rotating parts, high MTBF Power consumption (max) 12.5 Watts Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 CC certification LCOS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-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/INL) CD/DVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Cable 1Ethernet 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 Extension Passive GPS antenna can be ordered free of charge with enclosed voucher Support Warranty 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 UANCOM Warranty Basic Option S, item no. 10710	Weight	1,23 lbs (560 g)		
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 Power consumption (max) 12.5 Watts Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 CC certification 10 LCOS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-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/INL) CD/DVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Cable 1 Ethernet cable, 3 m Cable ADSL cable, 3m 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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	Power supply	12 V DC, external power adapter (230 V) with bayonet cap to protect against accidentally unplugging		
Fans None; fanless design without rotating parts, high MTBF Power consumption (max) 12.5 Watts Declarations of conformity*	Environment	Temperature range 5–40° C; humidity 0–95%; non-condensing		
Power consumption (max) 12.5 Watts Pocclarations of conformity* CE EN 60950-1, EN 55022, EN 55024 CC certification LCOS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-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 Cable ADSL cable, 3m 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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	Housing	Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D)		
Declarations of conformity* CE EN 60950-1, EN 55022, EN 55024 CC certification LCOS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-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 1Ethernet cable, 3 m Cable ADSL cable, 3m 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 3 years Options UNNOM VPN-25 Option (25 channels), item no. 60083 HANCOM VPN-25 Option (25 channels), item no. 10710	Fans	None; fanless design without rotating parts, high MTBF		
EN 60950-1, EN 55022, EN 55024 CC certification LCOS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-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 Cable ADSL cable, 3m 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 3 years **Options** VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	Power consumption (max)	12.5 Watts		
CC certification LCOS Certification based on Common Criteria for Information Technology Security Evaluation (CC EAL 4+) with certificate number "BSI-DSZ-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 **Stope 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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710				
at the German Federal Office for Information Security 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 Cable ADSL cable, 3m 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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	CE	EN 60950-1, EN 55022, EN 55024		
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 Cable ADSL 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 W1.5 A DC/S, coaxial power connector 2.1/5.5 mm bayonet, temperature range from -5 to +45° C Support VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	CC certification			
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 Cable ADSL 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 VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	*) Note	You will find all declarations of conformity in the products section of our website at www.lancom-systems.de/en		
CD/DVD Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Cable 1 Ethernet cable, 3 m Cable ADSL cable, 3m 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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710				
Cable ADSL 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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	Manual	Hardware Quick Reference (EN, DE), Installation Guide (DE/EN/FR/ES/IT/PT/NL)		
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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	CD/DVD	Data medium with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation		
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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	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 Warranty 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	Cable	ADSL cable, 3m		
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 3 years Options VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	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	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	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	Support			
VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	Warranty	3 years		
VPN LANCOM VPN-25 Option (25 channels), item no. 60083 Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	Options			
Warranty Extension LANCOM Warranty Basic Option S, item no. 10710	VPN	LANCOM VPN-25 Option (25 channels), item no. 60083		
Warranty Extension & Advanced Replacement LANCOM Warranty Advanced Option S, item no. 10715	Warranty Extension			
	,			

ō	
0	
S	
본	
⋍	
g	
em	
ag	
ro .	
₽	
Φ	
ă	
ıy be	
$\stackrel{\sim}{}$	
\sim	
Ξ	
O	
use	
\supset	
ns	
\subseteq	
0	
₽	
글	
5	
8	
_	
0	
S	
ame	
\equiv	
ਲ	
\subseteq	
_	
Φ	
_	ш
5	Ξ
	ċ
Ā	č
4	
	5
	2
arks.	10 20
arks.	10 20
arks.	10 20
demarks.	10 20
demarks.	10 20
rademarks.	10 20
rademarks.	romirrion 7/
rademarks.	romirrion 7/
rademarks.	romirrion 7/
red trademarks.	1/Or amirrians 2/
red trademarks.	nd/or omirrions 2/
red trademarks.	7 Judiorione 3/
red trademarks.	7 Judiorione 3/
registered trademarks.	7 Judiorione 3/
registered trademarks.	1/C Judicione 3/
registered trademarks.	15 radiorimo adlor para
registered trademarks.	15 radiorimo adlor para
registered trademarks.	/C raciring and/or animicions 2/
registered trademarks.	/C raciring and/or animicions 2/
registered trademarks.	/C raciring and/or animicions 2/
LCOS are registered trademarks.	15 recipies and for amireione 2/
d LCOS are registered trademarks.	15 representations of the property of the prop
d LCOS are registered trademarks.	1/C zacizina zalor zandzar zaniczione 2/
d LCOS are registered trademarks.	1/C zacizina zalor zandzar zaniczione 2/
s and LCOS are registered trademarks.	1/C national orange and or amircione 2/
s and LCOS are registered trademarks.	for tochnical organicator and large mirriage 2/
ms and LCOS are registered trademarks.	for tochnical organicator and large mirriage 2/
ms and LCOS are registered trademarks.	for tochnical organicator and large mirriage 2/
ms and LCUS are registered trademarks.	for tochnical organicator and large mirriage 2/
ms and LCOS are registered trademarks.	1/C national orange and or amircione 2/
4 Systems and LCOS are registered trademarks.	1. Sandar for tochoical organization of the library
M systems and LCOs are registered trademarks.	1. Sandar for tochoical organization of the library
OIM Systems and LCOS are registered trademarks.	1. Sandar for tochoical organization of the library
OIM Systems and LCOS are registered trademarks.	for tochnical organicator and large mirriage 2/
NCOM Systems and LCOS are registered trademarks.	No liability for tochnical orrors and/or amircians 2/
ANCOM Systems and LCOS are registered trademarks.	No liability for tochnical orrors and/or amircians 2/
NCOM Systems and LCOS are registered trademarks.	1. Sandar for tochoical organization of the library

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 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 O-360-3G omnidirectional GSM/GPRS/EDGE/3G/LTE outdoor antenna, item no. 61227	
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 1781A-4G (EU, CC)	62609	
LANCOM 1781A-4G (UK, CC)	62615	