

LANCOM 730-4G

Flexibly usable LTE/4G Internet access router



The LANCOM 730-4G offers a convenient way to enhance your network infrastructures with LTE/4G. The Gigabit Ethernet port allows the high-speed integration of the LANCOM 730-4G into your network. At the same time Power over Ethernet saves the need for an additional power supply unit. The device can thus be freely positioned wherever the best 4G signal is available to fully exploit the LTE/4G data rates of up to 100 Mbps. Thereby, it is an ideal and fully integrated solution for a mobile Internet connection, especially for critical installations, or where you need a backup connection.

- → Flexibly usable LTE/4G Internet access router for up to 100 Mbps
- → Support of VRRP
- → Professional backup function when combined with a LANCOM router
- → Easily connected to a LANCOM router or PoE switch
- → Gigabit Ethernet
- → Full integration into the LANCOM Management Cloud
- → Powered by PoE or power supply unit
- → Also operates as a stand-alone LTE/4G router
- → Backwards compatible to older cellular standards (2G/3G)



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Highest operational security

Thanks to VRRP support, the LANCOM 730-4G supplies an LTE connection to other gateways within the network within seconds.

Easy network installation

The LANCOM 730-4G has a PoE-enabled Gigabit Ethernet port. This makes it quick and easy to integrate into the network and the device can be freely positioned wherever the 4G signal is strongest.

Integrated 4G modem for data rates up to 100 Mbps

With an integrated cellular modem that supports LTE/4G, the LANCOM 730-4G supports wireless broadband connectivity with speeds up to 100 Mbps. It is also ideally suited for intelligent backup scenarios.

Security Made in Germany

In a market with a strong presence of American and Asian products, LANCOM offers maximum security "Made in Germany". The entire LANCOM core product range is developed and manufactured in Germany and tested according to the highest standards of security, data protection and quality. The company's own "closed-source" operating system LCOS is developed at the company headquarters in Germany. Our own team of developers works in a highly secure environment as certified by the BSI (German Federal Office for Information Security), all of which is subject to the highest standards of security, encryption, and quality.

Full integration into the LANCOM Management Cloud

The LANCOM 730-4G is effortlessly managed and monitored by the LANCOM Management Cloud. The LANCOM Management Cloud is the world's first management system for the intelligent organization, optimization and control of your entire network. This radically simplifies the management of installations, from small to very large scenarios.

Maximum future-proofing

LANCOM products are based on professional expertise, years of experience in IT, and high-quality materials. All of our devices are equipped with hardware that is dimensioned for the future and, even reaching back to older product generations, updates to the LANCOM Operating System—LCOS—are available several times a year, free of charge. This guarantees a long service life while staying technically up to date, which represents a true protection of your investment.



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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	850/900/1800/1900 MHz			
Maximum transmission power UMTS/HSxPA	+24 dBm			
Diversity support	Receive diversity on the aux antenna (2G + 3G); MIMO (2x2) for LTE (4G)			
Supported SIM card formats*	Mini-SIM (2FF), Micro-SIM (3FF) via adaptor, Nano-SIM (4FF) via adaptor			
SIM pin	Changing of SIM pin via LANconfig or CLI (command line interface)			
*) Note	LANCOM Systems recommends the use of a standard SIM (2FF / Mini-SIM)			
Layer 2 features				
VLAN	4.096 IDs based on IEEE 802.1q, dynamic assignment			
Multicast	IGMP-Snooping, MLD-Snooping			
Layer 3 features				
Firewall	Stateful inspection firewall including paket filtering, extended port forwarding, N:N IP address mapping, paket tagging, support for DNS targets, user-defined rules and notifications			
Quality of Service	Traffic shaping, bandwidth reservation, DiffServ/TOS, packetsize control, layer-2-in-layer-3 tagging			
Security	Intrusion Prevention, IP spoofing, access control lists, Denial of Service protection, detailed settings for handling reassembly, session-recovery, PING, stealth mode and AUTH port, URL blocker, password protection, programmab reset button			
PPP authentication mechanisms	PAP, CHAP, MS-CHAP, and MS-CHAPv2			
High availability / redundancy	VRRP (Virtual Router Redundancy Protocol), analog/GSM modem backup			
Router	IPv4-, IPv6-, NetBIOS/IP multiprotokoll router, IPv4/IPv6 dual stack			
SD-WAN Application Routing	SD-WAN Application Routing in connection with the LANCOM Management Cloud			
SD-WAN dynamic path selection	SD-WAN dynamic path selection in connection with the LANCOM Management Cloud			
Router virtualization	ARF (Advanced Routing and Forwarding) up to separate processing of 2 contexts			



Layer 3 features					
IPv4 services	HTTP and HTTPS server for configuration by web interface, DNS client, DNS server, DNS relay, DNS proxy, dynamic DNS client, DHCP client, DHCP relay and DHCP server including autodetection, NetBIOS/IP proxy, NTP client, SNTP server, policy-based routing, Bonjour-Proxy, RADIUS				
IPv6 services	HTTP and HTTPS server for configuration by web interface, DHCPv6 client, DHCPv6 server, DHCPv6 relay, I client, DNS server, dynamic DNS client, NTP client, SNTP server, Bonjour-Proxy, RADIUS				
Dynamic routing protocols	RIPv2				
IPv4 protocols	DNS, HTTP, HTTPS, ICMP, NTP/SNTP, NetBIOS, PPPoE (server), RADIUS, RADSEC (secure RADIUS), RTP, SNMPv1,v2c,v3, TFTP, TACACS+, IGMPv3				
IPv6 protocols	NDP, stateless address autoconfiguration (SLAAC), stateful address autoconfiguration (DHCPv6), router advertisements, ICMPv6, DHCPv6, DNS, HTTP, HTTPS, PPPoE, RADIUS, SMTP, NTP, Syslog, SNMPv1,v2c,v3, MLE NPTv6 (NAT66)				
Tunneling protocols (IPv4/IPv6)	6to4, 6in4, 6rd (static and over DHCP), Dual Stack Lite (IPv4-in-IPv6-Tunnel), 464XLAT				
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 e-mail, SNMP traps and SYSLOG				
Authentication mechanisms	EAP-TLS, EAP-TTLS, PEAP, MS-CHAP, MS-CHAPv2 as EAP authentication mechanisms, PAP, CHAP, MS-CHAP MS-CHAPv2 as PPP authentication mechanisms				
Adjustable reset button	Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'				
High availability / redundancy					
VRRP	VRRP (Virtual Router Redundancy Protocol) for backup in case of failure of a device or remote station.				
FirmSafe	For completely safe software upgrades thanks to two stored firmware versions, incl. test mode for firmware updates				
LTE-Backup	In case of failure of the main connection, a backup connection is established over the internal LTE modem; automater return to the main connection				
Analog/GSM modem backup	Optional operation of an analog or GSM modem at the serial interface				



Performance					
Routing-Performance	Data regarding the overall routing performance can be found inside the LANCOM tech paper "Routing-Performance on www.lancom-systems.com"				
WAN operating mode					
UMTS/LTE	GPRS, Edge, UMTS, HSPA or LTE with internal mobile modem				
Interfaces					
ETH1 (PoE)	10/100/1000 Base-T, autosensing, auto node hub, PoE compliant with IEEE 802.3af/at. The port supports energy saving according to IEEE 802.3az				
Serial interface	Serial configuration interface / COM port (8 pin Mini-DIN): 9,600 - 115,000 baud, suitable for optional connection analog/GPRS modems. Supports internal COM port server and allows for transparent asynchronous transmission of serial data via TCP				
External antenna connectors	Two SMA antenna connectors for external LTE antennas (Ant 1, Ant 2)				
Management and monitoring					
Management	LANCOM Management Cloud, LANconfig, WEBconfig, LANCOM Layer 2 management (emergency management)				
Management functions	Alternative boot configuration, voluntary automatic updates for LCMS and LCOS, individual access and function rights up to 16 administrators, RADIUS and RADSEC user management, remote access (WAN or (W)LAN, access rights (read/write) adjustable seperately), SSL, SSH, HTTPS, Telnet, TFTP, SNMP, HTTP, access rights via TACACS scripting, timed control of all parameters and actions through cron job				
FirmSafe	Two stored firmware versions, incl. test mode for firmware updates				
automatic firmware update	configurable automatic checking and installation of firmware updates				
Monitoring	LANCOM Management Cloud, LANmonitor, WLANmonitor				
Monitoring functions	Device SYSLOG, SNMPv1,v2c,v3 incl. SNMP-TRAPS, extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for firewall events				
Monitoring statistics	Extensive Ethernet, IP and DNS statistics; SYSLOG error counter, accounting information exportable via LANmonitor and SYSLOG				
IPerf	IPerf is a tool for measurements of the bandwidth on IP networks (integrated client and server)				
SLA-Monitor (ICMP)	Performance monitoring of connections				
Netflow	Export of information about incoming and outgoing IP traffic				
SD-LAN	SD-LAN – automatic LAN configuration via the LANCOM Management Cloud				
SD-WAN	SD-WAN – automatic WAN configuration via the LANCOM Management Cloud				



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LCOS 10.50

Hardware				
Weight	1,1 lbs (500 g)			
Power supply	Via Power over Ethernet, compliant with IEEE 802.3af*/at			
Environment	Temperature range 0–35° 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 D)			
Fans	None; fanless design without rotating parts, high MTBF			
Power consumption (max)	Approx. 12 W via power adapter (value refers to the overall power for thedevice and power adapter), about 11 via PoE (value refers to the power for the device only)			
*) Note	The 3G/4G modes are supported using PoE IEEE 802.3af power supply. In case the WWAN radio is operated in 2 mode, LANCOM recommends using an IEEE 802.3at-capable PoE-adaptor or switch.			
Declarations of conformity	ı*			
Europe/EFTA	CE			
IPv6	IPv6 Ready Gold			
Country of Origin	Made in Germany			
*) Note	You will find all declarations of conformity on our website at <u>www.lancom-systems.com/doc</u>			
Scope of delivery				
Manual	Hardware Quick Reference (DE/EN), Installation Guide (DE/EN)			
Cable	1 Ethernet cable, 3 m			
Antennas	Two 2 dBi Edge/UMTS/LTE-antennas			
Power supply unit	External power adapter (230 V), NEST 12 V/2.0 A DC/S, coaxial power connector 2.1/5.5 mm, temperature ran from -5 to +45° C, LANCOM item no. 111303 (EU)/ External power adapter (230 V), NEST 12 V/1.5 A DC/S, coaxial power connector 2.1/5.5 mm, temperature range from -5 to +45° C, LANCOM item no 110829 (UK)			
Support				
Warranty	3 years For details, please refer to the General Warranty Conditions at: www.lancom-systems.com/warranty-conditions			
Software updates	Regular free updates as part of the LANCOM Software Lifecycle Managements (<u>www.lancom-systems.com/lifecycle</u>			
Manufacturer support	Free technical manufacturer support as part of the LANCOM Software Lifecycle Management (www.lancom-systems.com/lifecycle).			



Software				
Software Lifecycle Management	After discontinuation, the device is subject to the LANCOM Software Lifecycle Management. Details can be found at: www.lancom-systems.com/lifecycle			
Anti-backdoor policy	Products from LANCOM are free of hidden access paths (backdoors) and other undesirable features for introduce extracting or manipulating data. The trust seal "IT Security made in Germany" (ITSMIG) and certification by the German Federal Office for Information Security (BSI) confirm the trustworthiness and the outstanding level of security (BSI) confirm the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the trustworthiness and the outstanding level of security (BSI) confirms the outstanding level of security (BSI) confirms the outstanding level of security (B			
Options				
LANcare Basic S	Service package with security updates and support entitlement* until EOL and 5 years replacement service (* support access required, e.g. support contract or LANCOM Service Packs 24/7 or 10/5), item no. 10720			
LANcare Advanced S	Service package with security updates and support entitlement* until EOL and 5 years NBD advance replacem (* support access required, e.g. support contract or LANCOM Service Packs 24/7 or 10/5), item no. 10730			
LANCOM Management Cloud				
LANCOM LMC-A-1Y LMC License	LANCOM LMC-A-1Y License (1 Year), enables the management of one category A device for one year via the LANCOM Management Cloud, item no. 50100			
LANCOM LMC-A-3Y LMC License	LANCOM LMC-A-3Y License (3 Years), enables the management of one category A device for three years via the LANCOM Management Cloud, item no. 50101			
LANCOM LMC-A-5Y LMC License	LANCOM LMC-A-5Y License (5 Years), enables the management of one category A device for five years via the LANCOM Management Cloud, item no. 50102			
Accessories				
External antenna	AirLancer I-360D-5G, omnidirectional outdoor antenna MIMO (2x2), for all 4G/5G bands (698-3800 MHz), item no. 60919			
External antenna	AirLancer O-360D-5G, omnidirectional outdoor antenna MIMO (2x2), for all 4G/5G bands (698-3800 MHz), item no. 61233			
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 730-4G (EU)	61710			



Item number(s)				
LANCOM 730-4G (UK)	61711			
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4G Ant 2		•		4G Ant 1
DC 12 V	Config (Com)	Reset		M †□