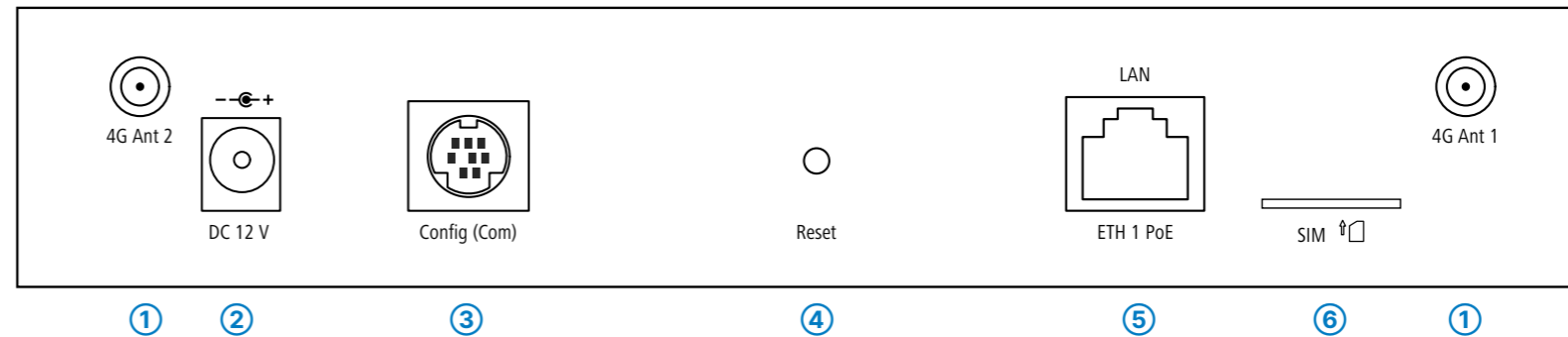
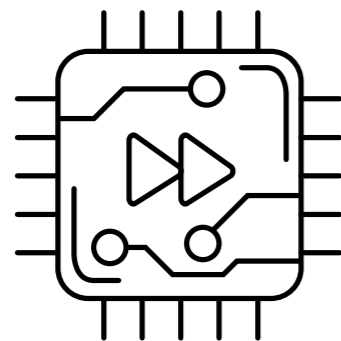
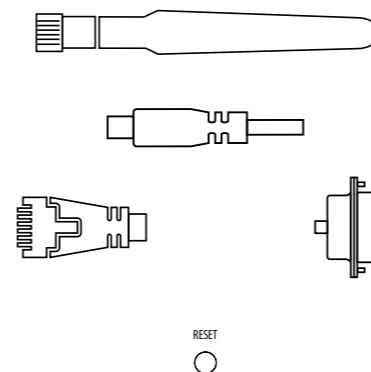


Hardware Quick Reference LANCOM 730-4G+

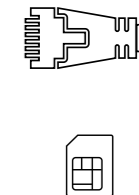


- 1 LTE / 4G antenna connectors**
Connect the two supplied cellular antennas to the connectors 4G Ant 1 and Ant 2.
- 2 Power supply connector**
Use only the supplied power adapter!
- 3 Configuration interface**
Configuring the device via the serial interface requires a serial configuration cable (available as an accessory).
- 4 Reset button**
Pressed up to 5 seconds: device restart

Pressed until first flashing up of all LEDs: configuration reset and device restart



- 5 Ethernet interface**
Use the enclosed Ethernet cable to connect the interface ETH 1 to a PC or a LAN switch.
- 6 SIM card slot**
Slide the SIM card into the slot using the marker to ensure that the card is the right way round.
Ensure that the SIM card clicks into place on insertion. To remove the card from the device again, press the card lightly into the device. Let go to release the SIM card from the slot.



Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!

Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.

Antennas may only be attached or replaced when the device is switched off. Mounting or dismantling while the device is switched on may destroy the 4G module!

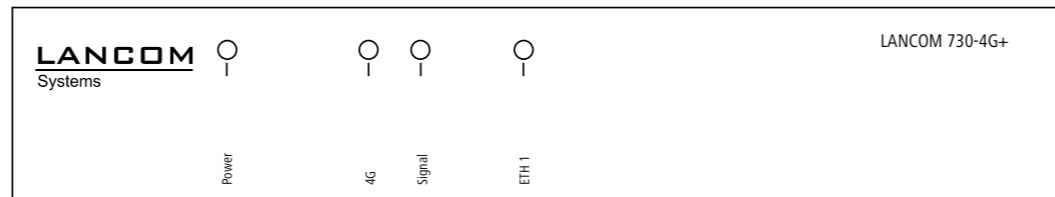
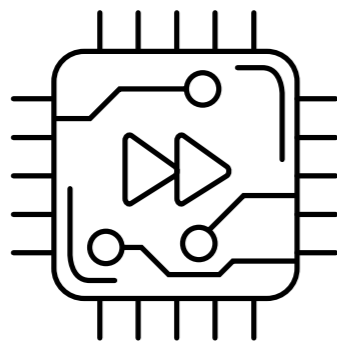
The SIM card may only be inserted or removed when the device is switched off. Inserting or removing while the device is switched on may destroy the 4G module!



- Please observe the following when setting up the device**
- The mains plug of the device must be freely accessible.
 - When setting up on the table, glue on rubber feet.
 - Do not rest any objects on top of the device and do not stack multiple devices.
 - Keep all ventilation slots of the device clear of obstruction.
 - In case of wall mounting, use the drilling template as supplied.
 - Rack installation with the optional LANCOM Rack Mount (separately available)
 - When working with separately purchased antennas, please ensure you do not exceed the maximum permissible transmission power. The system operator is responsible for compliance with the limit values.

LED description & technical details

Hardware Quick Reference LANCOM 730-4G+



A

B

C

D

A Power		C Signal	
Off	Device switched off	Off	No cellular reception
Green, permanently*	Device operational, resp. device paired / claimed and LANCOM Management Cloud (LMC) accessible	Green, permanently	Good signal strength, greater than or equal to -70 dB
Green/orange, blinking	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.	Orange, permanently	Medium signal strength, field strength between -86 and -71 dB
1x green inverse blinking*	Connection to the LMC active, pairing OK, claiming error	Orange, blinking	Low signal strength, field strength less than -87 dB
2x green inverse blinking*	Pairing error, resp. LMC activation code / PSK not available	D ETH 1	
3x green inverse blinking*	LMC not accessible, resp. communication error	Off	No networking device attached
B 4G		Green, permanently	Connection to network device operational, no data traffic
Off	Cellular interface disabled	Green, flickering	Data transmission
Green, permanently	Connection to cellular network active		
Green, flickering	Cellular data transmission		
Orange, permanently	Logon to cellular network successful		
Orange, blinking	Logging on to cellular network		
Red, permanently	Hardware error/module unavailable		
Red/green, blinking	SIM card error (PIN)		
Red/orange, blinking	Uploading module firmware		

Hardware	
Power supply	12 V DC, external power adapter or PoE according to 802.3af/at via ETH 1 For an overview of the power supplies compatible with your device, see www.lancom-systems.com/kb/power-supplies .
Power consumption	Approx. 12 W via external 12 V / 2,0 A power adapter (value refers to the overall power for the router and power adapter); approx. 11 W via PoE (value refers solely to the power of the device)
Environment	Temperature range 0° to +40°C a vertical mounting position using the LANCOM Wall Mount; Temperature range 0° to 35°C a horizontal mounting position and adequate ventilation; humidity up to 95%; non-condensing; In order to prevent overheating of the device the LTE module is deactivated automatically.
Housing	Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; dimensions 210 × 45 × 140 mm (W x H x D)
Number of fans	None; fanless design, no rotating parts, high MTBF
Interfaces	
WAN, LAN	10 / 100 / 1000 Base-TX, autosensing, auto node hub
Serial interface	Serial configuration interface / COM port (8-pin Mini-DIN): 9,600-115,000 baud, suitable for optional connection of analog / GPRS modems. Supports internal COM-port server and provides transparent asynchronous serial-data transfer via TCP.
4G: Ant 1, Ant 2	2 SMA connectors for the supplied dipole rod antennas (LTE, HSPA+, HSxPA, UMTS), compatible LANCOM AirLancer antennas for 4G, or from other manufacturers **
Data transmission in cellular networks	
Supported standards	LTE Advanced, LTE, HSPA+, HSxPA, UMTS
LTE / HSPA+ / HSxPA / UMTS	Band 1 (2100 MHz), band 2 (1900 MHz), band 3 (1800 MHz), band 4 (2100 MHz), band 5 (800 MHz), band 7 (2600 MHz), band 8 (900 MHz), band 12 (700 MHz), band 13 (700 MHz), band 20 (800 MHz), band 25 (1900 MHz), band 26 (800 MHz), band 29 (700 MHz), band 30 (2300 MHz), band 41 (2500 MHz)
Maximum transmission power	+23 dBm
Package content	
Cable	1 Ethernet cable, 3m (kiwi-colored connector)
Antenna	2 LTE / 4G antennas for LTE, HSPA+, HSxPA, UMTS
Power adapter	External power adapter

*) The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the LANCOM Management Cloud.

This product contains separate open-source software components which are subject to their own licenses, in particular the General Public License (GPL). The license information for the device firmware (LCOS) is available on the device's WEBconfig interface under "Extras > License information". If the respective license demands, the source files for the corresponding software components will be made available on a download server upon request.

Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuersele, declares that this device is in compliance with Directives 2014/30/EU, 2014/53/EU, 2014/35/EU, 2011/65/EU, and Regulation (EC) No. 1907/2006. The full text of the EU Declaration of Conformity is available at the following Internet address: www.lancom-systems.com/doc

**) Please respect the restrictions which apply in your country when setting up an antenna system (in particular the antenna gain and transmission power).



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