Manuals+ — User Manuals Simplified.

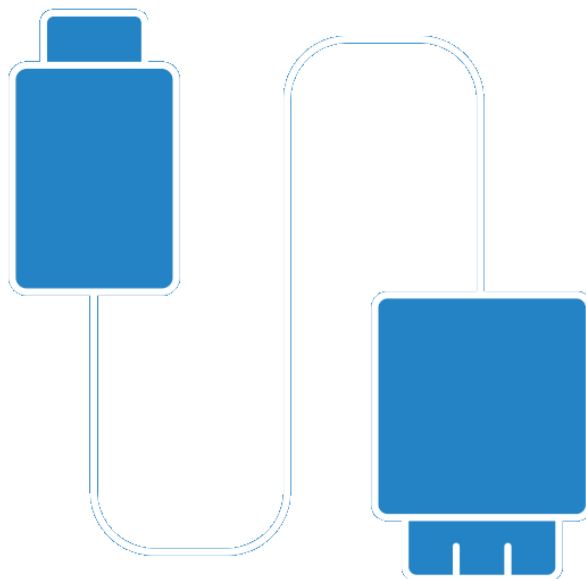# LANCOM Systems ISG-4000 Large Scale Multi-service IP Networks User Guide

LANCOM ISG-4000
Quick Reference Guide
SECURE NETWORKS.

Contents

MOUNTING AND CONNECTING THE DEVICE
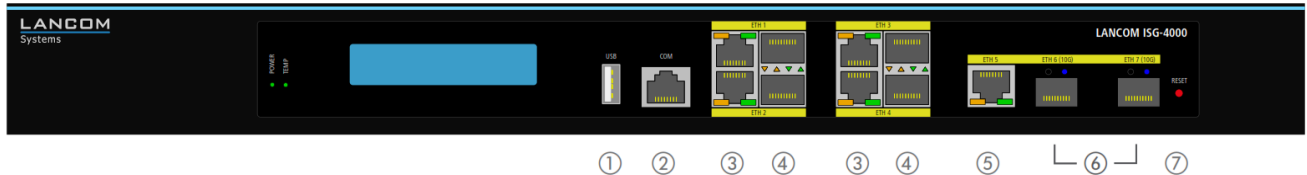
1. **USB interface**

   You can use the USB interface to connect a USB printer or a USB storage device.

2. **Serial configuration interface**

   Use the included serial configuration cable to connect the serial interface (COM) to the serial interface of the device you want to use for configuring / monitoring.

3. **SFP / TP Ethernet interfaces (combo ports)**

   Insert suitable SFP modules into the SFP ports ETH 1 – ETH 4. Choose cables compatible with the SFP modules and connect them as described in the module's documentation. SFP modules and cables are not included.

4. If desired, alternatively connect the ETH 1 – ETH 4 TP Ethernet interfaces to your PC or a LAN switch using one of the enclosed cables with the kiwi-colored connectors.

5. **TP Ethernet interface**

   Use one of the enclosed cables with the kiwi-colored connectors to connect the interface ETH 5 to your PC or a LAN switch.


6. **SFP+ interfaces (10G)**

   Insert suitable SFP modules into the SFP ports ETH 6 – ETH 7. Choose cables compatible with the SFP

modules and connect them as described in the module's documentation. SFP modules and cables are not included.

7. **Reset button**

Pressed up to 5 seconds: device restart Pressed until first flashing up of all LEDs: configuration reset and device restart

Reset
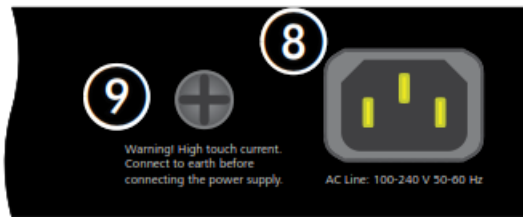
8. Power connector and grounding point (device back side) Supply power to the device via the power connector. Please use the IEC power cable supplied (separately available for WW devices).

9. ATTENTION: High touch current possible! Connect to earth before connecting the power supply. For this purpose, remove the existing blind screw and use the enclosed grounding screw instead.

Please observe the following when setting up the device

- The main plug of the device must be freely accessible.
- For devices to be operated on the desktop, please attach the adhesive rubber footpads.
- Do not rest any objects on top of the device and do not stack multiple devices.
- Keep the ventilation slots on the side of the device clear of obstruction.
- Mount the device into a 19" unit in a server cabinet using the provided screws and mounting brackets.

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.

TECHNICAL DATA
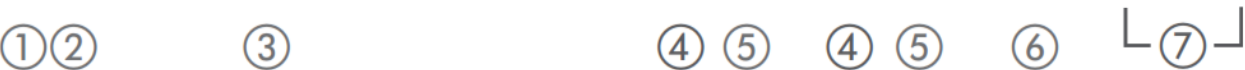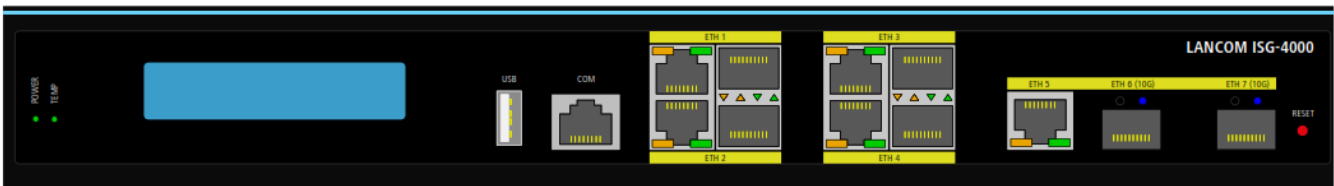
1.POWER

Off	Device switched off
Green, permanently*	Device operational, resp device paired/claimed and LANCOM Management Cloud (LMC) accessible
Green / red, blinking	No password set. Without a password, the configuration data in the device is unprotected.
Red, blinking	Charge or time limit reached
lx green inverse blinking*	Connection to the LMC active, pairing OK, device not claimed
2x green inverse blinking*	Pairing error, resp. LMC activation code not available
3x green inverse blinking*	LMC not accessible, resp. communication error

2. TEMP

Green, permanently	CPU temperature OK
Red, blinking	Hardware failure of the fan or CPU temperature too high; additional acoustic signal

3. LCD display (rotating in two lines)

- Device name
- Firmware version
- Device temperature
- Date and time
- CPU load
- Memory usage
- Number of VPN tunnels)
- Data transfer in the reception direction
- Data transfer in the transmission direction

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

4. ETH 1 – ETH 4 – TP (one green and orange LED each)

Both LEDs off	No networking device attached
Green, permanently	Connection to network device operational, no data traffic
Green, flickering	Data transmission
Orange off	1000 Mbps
Orange, permanently	10 / 100 Mbps

5. ETH 1 – ETH 4 – SFP (one green and orange LED each)

Both LEDs off	No networking device attached
Green, permanently	Connection to network device operational, no data traffic
Green, flickering	Data transmission
Orange off	1000 Mbps
Orange, permanently	10 / 100 Mbps

6. ETH 5

Both LEDs off	No networking device attached
Green, permanently	Connection to network device operational, no data traffic
Green, flickering	Data transmission
Orange off	1000 Mbps
Orange, permanently	10 / 100 Mbps

7. ETH 6 – ETH 7 – SFP+ (one blue LED each)

Off	No networking device attached
Blue, permanently	Connection to network device operational, no data traffic
Blue, flickering	Data transmission

Hardware

Power supply	Internal power supply unit (110-230 V, 50-60 Hz)
Power consumption	150 W
'Environment I	Temperature range 5-40 °C; humidity 0-95 91); non-condensing
1Housing i	Robust metal housing, 19″ 1U with removable mounting brackets, network connectors on the front
!Number of fans	3

Interfaces

ETH	4x 10 / 100 / 1000-Mbps Gigabit Ethernet combo ports (ETH 1 – ETH 4), 1x Gigabit Ethernet port (ETH 5), 2x SFP+ ports 10 Gbps. Up to 4 ports can be switched as additional WAN ports with load balancing. Ethernet ports can be electrically disabled within LCOS configuration.
USB	USB 2.0 Hi-Speed host port for connecting USB printers (USB print server)or USB data media (FAT file system); bi-directional data exchange is possible (max. 480 Mbps)
Serial Interface	Serial configuration interface

Declaration of conformity

Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuerselen, declares that this device is in compliance with Directives 2014/30/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**

Package content

Documentation	Quick Reference Guide (DE, EN), Installation Guide (DE/EN)
Accessories	2 Ethernet cables, 3 m (kiwi colored connectors); 1 serial configuration cable 1.5 m; 1 IEC power cord 230 V (not for WW devices); 1 grounding screw

LANCOM, LANCOM Systems, LCOS, LAN community and Hyper Integration are registered trademarks. All other names or descriptions used may be trademarks or registered trademarks of their owners. This document contains statements relating to future products and their attributes. LANCOM Systems reserves the right to change these without notice. No liability for technical errors and/or omissions. 111749/1121
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.

Documents / Resources

LANCOM Systems ISG-4000 Large Scale Multi-service IP Networks [pdf] User Guide
ISG-4000, Large Scale Multi-service IP Networks, Multi-service IP Networks, ISG-4000, IP Networks

References

- **L DoC - LANCOM Systems GmbH**