LANCOM SYSTEMS GS-4530XUP Fully Managed Access Switches Installation Guide

Contents

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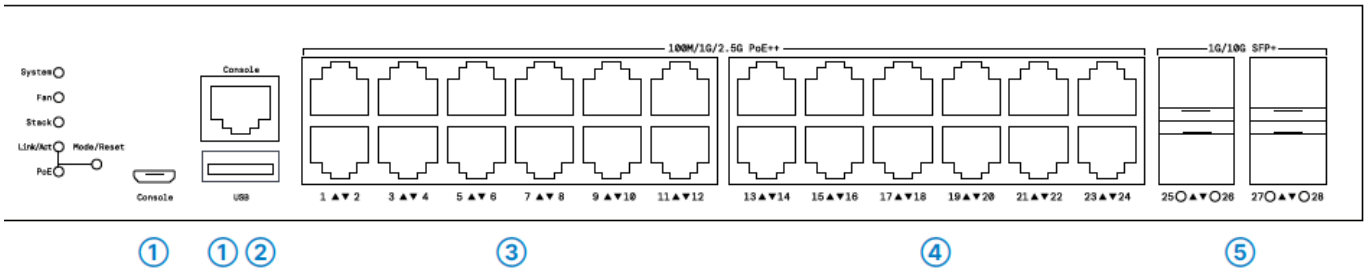
Product Information

The LANCOM GS-4530XUP is a network switch that features multiple configuration interfaces, Ethernet and SFP+ interfaces, an out-of-band interface, QSFP+ interfaces, and a power supply module. It supports 100M / 1G / 2.5G PoE++ on Ethernet interfaces 1 to 24 and 1G / 10G on SFP+ interfaces 25 to 28. The device is cloud-ready and can be operated via a nearby power socket.

Product Usage Instructions

1. To configure the switch, connect the configuration interface via the included micro USB cable to the USB interface of the device you want to use for configuring / monitoring the switch. Alternatively, use the RJ-45 interface with the provided serial configuration cable.
2. Connect Ethernet interfaces 1 to 24 via Ethernet cable with at least CAT5e / S/FTP standard to your PC or a LAN switch.
3. Insert suitable LANCOM SFP modules into the SFP+ interfaces 25 to 28. Choose cables which are compatible with the SFP modules and connect them as described in the SFP modules mounting instructions: **www.lancom-systems.com/SFP-module-MI**.
4. Use an Ethernet cable to connect the out-of-band service port for an IP interface independent of the switching plane for management tasks or connection to a monitoring server.
5. Plug suitable LANCOM QSFP+ modules into the QSFP+ interfaces 29 and 30. Select cables suitable for the QSFP+ modules and connect them as described in the SFP modules mounting instructions: **www.lancom-systems.com/SFP-module-MI**.
6. Supply the device with power via the power supply socket of the power supply module. Use the supplied power cord or a country-specific LANCOM power cord.
7. To install an additional power supply module, remove the corresponding module bay cover by loosening both associated screws and push the power supply module in as far as it will go until the release lever audibly engages. Check by pulling the handle that the module cannot be removed from the bay without the release lever being pressed to the left.
8. Attach the adhesive rubber footpads for devices to be operated on the desktop. Do not rest any objects on top of the device and do not stack multiple devices. Keep all ventilation slots clear of obstruction.
9. Mount the device into a 19 unit in a server cabinet using the provided screws and mounting brackets. Both slide-in rails are attached as shown in the accompanying installation instructions: **www.lancom-systems.com/slide-in-MI**.
10. Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!

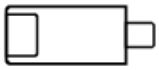
Instruction



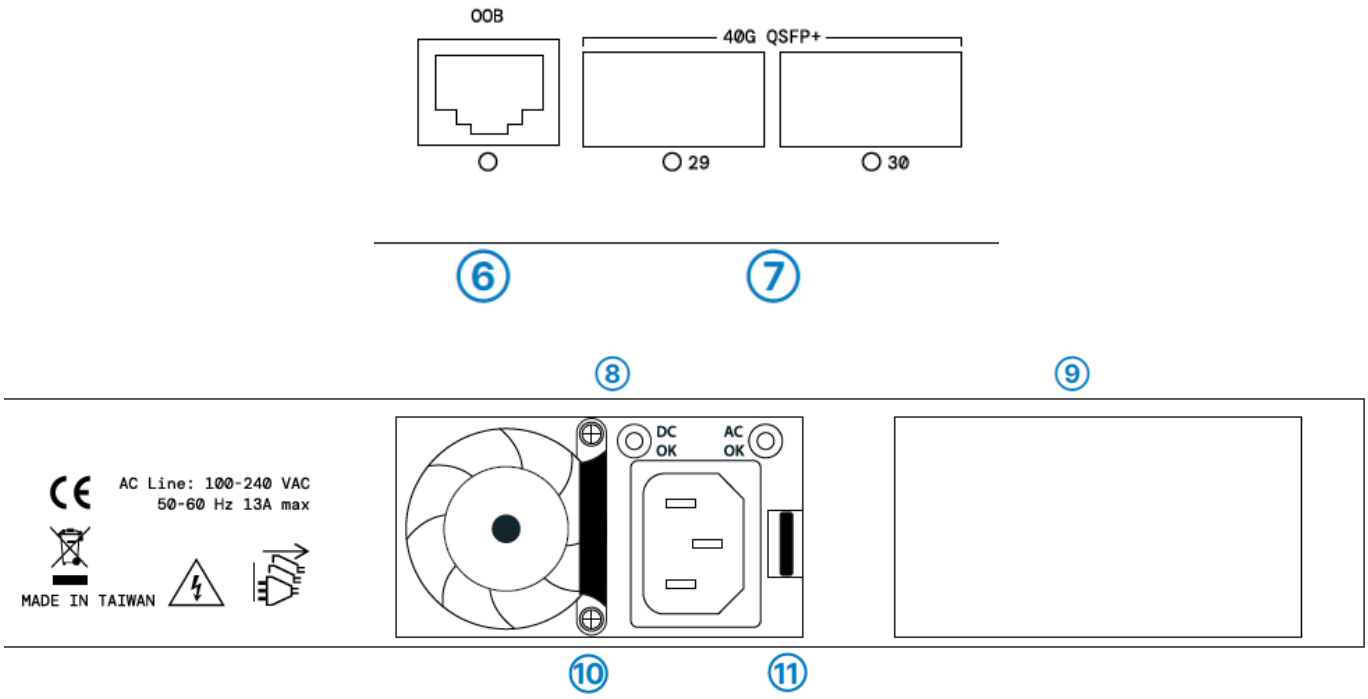
1. Configuration interfaces RJ-45 & micro USB (Console) Connect the configuration interface via the included micro USB cable to the USB interface of the device you want to use for configuring / monitoring the switch. Alternatively, use the RJ-45 interface with the provided serial configuration cable.

2. USB interface
   Connect a USB stick to the USB interface to store general configuration scripts or debug data. You can also use this inter-face to upload a new firmware.

3. TP Ethernet interfaces 100M / 1G / 2.5G PoE++



4. Connect the interfaces 1 to 24 via Ethernet cable with at least CAT5e / S/FTP standard to your PC or a LAN switch.
5. SFP+ interfaces 1G / 10G
   Insert suitable LANCOM SFP modules into the SFP+ interfaces 25 to 28. Choose cables which are compatible with the SFP modules and connect them as described in the SFP modules mounting instructions: **www.lancom-systems.com/SFP-module-MI**.
6. OOB interface (rear panel)
   Use an Ethernet cable to connect this out-of-band service port for an IP interface independent of the switching plane for management tasks or connection to a monitoring server.
7. QSFP+ interfaces 40G (rear panel)
   Plug suitable LANCOM QSFP+ modules into the QSFP+ interfaces 29 and 30. Select cables suitable for the QSFP+ modules and connect them as described in the SFP modules mounting instructions: **www.lancom-systems.com/SFP-module-MI**.
8. Power supply module with mains connection socket (rear panel) Supply the device with power via the power supply socket of the power supply module. Use the supplied power cord or a country-specific LANCOM power cord.
   To remove the power supply module, disconnect the module from the power supply and then pull the plug out of the module. While pressing the release lever 11 to the left, you can pull the module out of the device by the handle 10 .
9. Additional slot for power supply module with mains connection socket (rear panel) To install an additional power supply module, remove the corresponding module bay cover by loosening both associated screws and push the power supply module in as far as it will go until the release lever 11 audibly engages. Check by pulling the handle 10 that the module cannot be removed from the bay without the release lever 11 being pressed to the left.

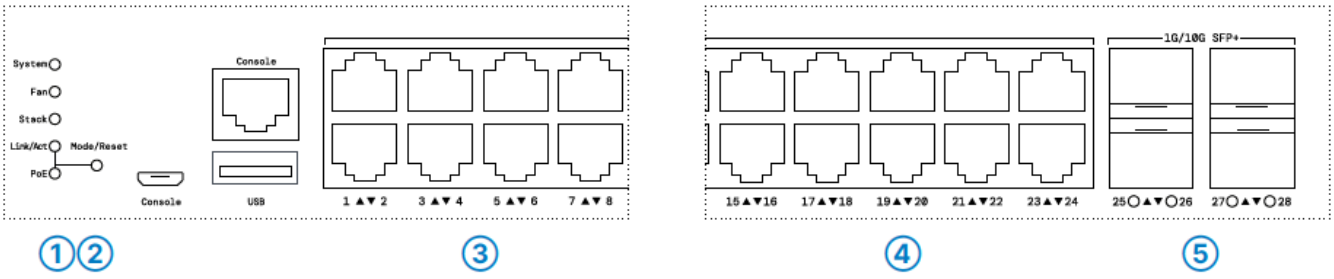


Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!
Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.
The power plug of the device must be freely accessible.
Please note that support for third-party accessories (SFP and DAC) is not provided.

Please observe the following when setting up the device

- 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 all ventilation slots clear of obstruction.
- Mount the device into a 19” unit in a server cabinet using the provided screws and mounting brackets.

Both slide-in rails are attached as shown in the accompanying installation instructions www.lancom-systems.com/slide-in-MI.



- System / Fan / Stack / Link/Act / PoE

  System: green Device operational

  System: red Hardware error

  Fan: red Fan error

Stack: green As manager: port activated and connected with standby manager connected

Stack: orange As standby manager: port activated and connected to connected manager

Link/Act: green Port LEDs show link / activity status

PoE: green Port LEDs show PoE status

- Mode / Reset button

  Short press Switching the port LED display ~ 5 seconds pressed Device restart

  Pressed until all port

  LEDs glow

  Configuration reset and device restart
- TP Ethernet ports 100M / 1G / 2.5G PoE++

  LEDs switched to Link/Act/Speed mode

  Off Port inactive or disabled

  Green Link 2500 – 1000 Mbps

  Green, blinking Data transfer, link 2500 – 1000 Mbps

  Orange Link < 1000 Mbps

  Orange, blinking Data transfer, link < 1000 Mbps

  LEDs switched to PoE mode

  Off Port inactive or disabled

  Green Port enabled, power supply to connected device

  Orange Hardware error
- SFP+ ports 1G / 10G

  Off Port inactive or disabled

  Blue Link 10 Gbps

  Blue, blinking Data transfer, link 10 Gbps

  Green Link 1 Gbps

  Green, blinking Data transfer, link 1 Gbps
- Power supply unit (rear panel)

  DC OK: green, blinking Secondary power supply OK

  DC OK: red, blinking Secondary power supply failure

  AC OK: green, blinking Primary power supply OK

  AC OK: red, blinking Primary power supply failure
- OOB port (rear panel)

  Off OOB port inactive

  Green Link 1000 Mbps
- QSFP+ ports 40G (rear panel)

  Off Port inactive or disabled

  Green Link 40 Gbps

  Green, blinking Data transfer, link 40 Gbps

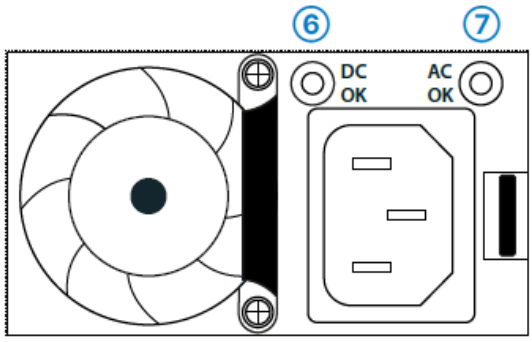
Hardware

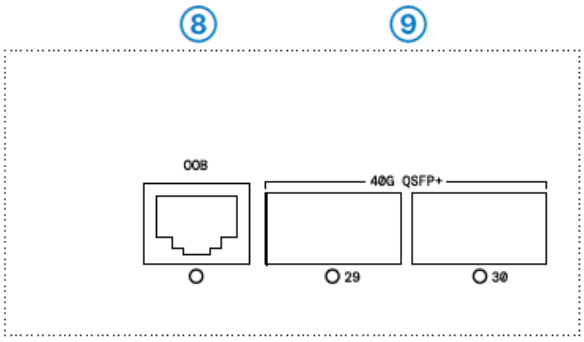
Power supply Exchangeable power supply (110-230 V, 50-60 Hz)
Environment Temperature range 0–40° C; short-term temperature range 0-50° C; humidity 10–90 %, non-condensing
Housing Robust metal housing, 1 HU with removable mounting brackets and slide-in rails,
network connections at front and rear, dimensions 442 x 44 x 375 mm (W x H x D)

Number of fans 2

Interfaces
QSFP+ 2 QSFP+ 40 Gbps uplink ports for connection to superordinate core switches or content servers, can also be configured as stacking ports via software
TP Ethernet 24 TP Ethernet ports 100 / 1000 / 2500 Mbps PoE++
SFP+ 4 SFP+ 1 / 10 Gbps, uplink ports for connection to superordinate core switches or content servers, can also be configured as stacking ports via software
Console 1 RJ-45 / 1 Micro USB
USB 1 USB host
OOB 1 OOB

Package Content
Mounting brackets 2 19“ mounting brackets, 2 slide-in rails for rear stabilization in 19“ racks
Power supply 1x exchangeable power supply LANCOM SPSU-920, expandable to 2 LANCOM SPSU-920 power supplies (hot swappable, for redundancy operation)
Cables 1 IEC power cord, 1 serial configuration cable, 1 micro USB configuration cable





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**

Documents / Resources

	**LANCOM SYSTEMS GS-4530XUP Fully Managed Access Switches** [pdf] Installation Guide GS-4530XUP Fully Managed Access Switches, GS-4530XUP, Fully Managed Access Switches, Managed Access Switches, Access Switches, Switches

References

- **DoC - LANCOM Systems GmbH**
- **lancom-systems.com/SFP-module-MI**
- **lancom-systems.com/slide-in-MI**