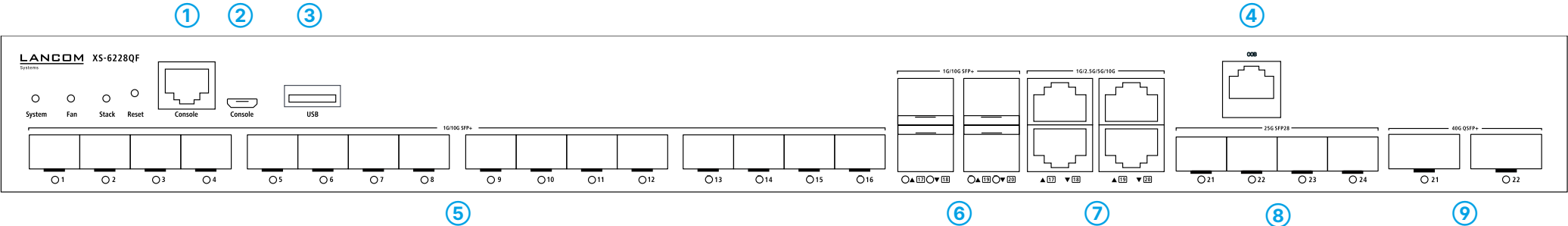
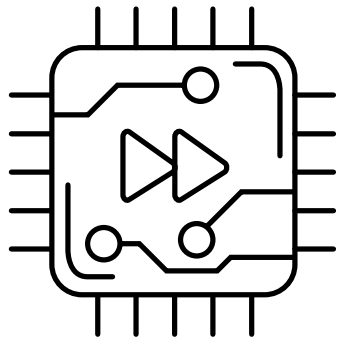
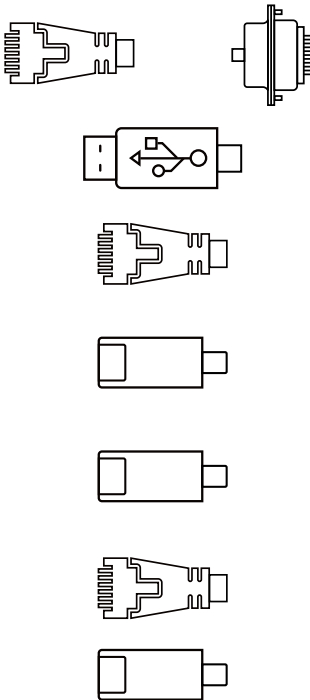


Hardware Quick Reference

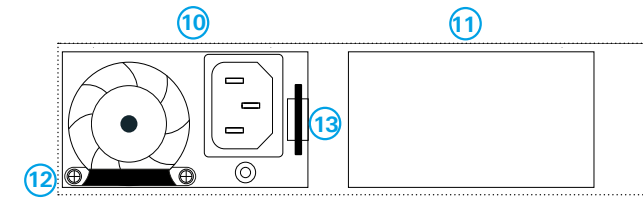
R&S®LANCOM XS-6228QF



- 1 Configuration interfaces RJ-45 & micro USB (Console)**
Connect the configuration interface 1 via the included serial configuration cable to the serial interface of the device you want to use for configuring / monitoring the switch. Alternatively use the interface 2 with a suitable micro USB 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 interface to upload a new firmware.
- 3 OOB interface**
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. In particular, this port can be used as a VPC-keepalive link (split-brain detection).
- 5 SFP+ interfaces 1G / 10G**
Insert suitable R&S®LANCOM SFP transceivers into the SFP+ interfaces 1 to 12. Choose cables which are compatible with the SFP transceivers and connect them as described in the SFP transceivers mounting instructions.
- 6 SFP+ interfaces 1G / 10G (combo ports)**
Insert suitable R&S®LANCOM SFP transceivers into the SFP+ interfaces 13 to 14. Choose cables which are compatible with the SFP transceivers and connect them as described in the SFP transceivers mounting instructions.
- 7 TP Ethernet interfaces 1G / 2.5G / 5G / 10G (combo ports)**
Connect the interfaces 13 to 14 via Ethernet cables to your PC or a LAN switch.
- 8 SFP28 interfaces 10G / 25G (Flex ports)**
Insert suitable R&S®LANCOM SFP28 or 10G SFP+ transceivers into the SFP28 interfaces 21 to 24. Choose cables which are compatible with the SFP28 / 10G SFP+ transceivers and connect them as described in the SFP transceivers mounting instructions.



- 4 QSFP+ interfaces 40G (Flex ports)**
Plug suitable R&S®LANCOM QSFP+ transceivers into the QSFP+ interfaces 21 to 22. Select cables suitable for the QSFP+ transceivers and connect them as described in the SFP modules mounting instructions.
- 6 Rear panel:**
SFP-DD interfaces 25G / 50G
Insert R&S®LANCOM SFP-DD-DAC50 stacking cables into the SFP-DD interfaces 25 to 28. For decentralized stacking scenarios (stack-member switches are distributed over spatially separated locations) the use of R&S®LANCOM SFP28 transceivers is recommended.
- 2 slots for fan modules**
To remove a fan module in case of defect, loosen the two knurled screws of the module and remove the module from the plug-in unit. To install a new fan module, push it into the corresponding slot. Fasten the module to the switch housing with the knurled screws. Please note that a defective fan should be replaced within 48h.
- 10 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 R&S®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 13 to the left, you can pull the module out of the device by the handle 12.
- 11 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 13 audibly engages. Check by pulling the handle 12 that the module cannot be removed from the bay without the release lever 13 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.

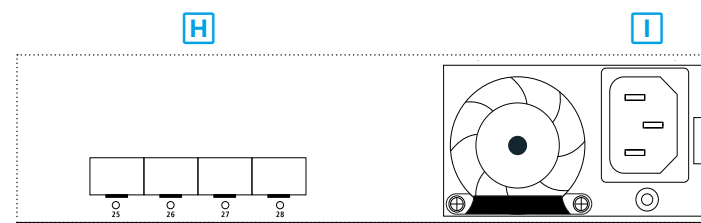
Please note that support for third-party accessories (SFP and DAC) is not provided.

- Please observe the following when setting up the device**
 - Do not rest any objects on top of the device and do not stack multiple devices.
 - Keep the ventilation slots of the device clear of obstruction.
 - Mount the device with the enclosed rack mounting system in a free 19" slot of an appropriate server rack. Both slide-in rails are attached as shown in the accompanying installation instructions.

Mounting & connecting

A System / Fan / Stack	F SFP28 ports 1G / 10G / 25G (Flex ports)
System: green System: red Fan: red Stack: off Stack: green Stack: orange	Off Green Green, blinking Orange Orange, blinking Off Green Green, blinking Orange Orange, blinking
B Reset button	H SFP-DD stacking ports 25G (SFP28) / 50G
~5 sec. pressed Pressed until all port LEDs glow	Off Green Green, blinking Orange Orange, blinking
C SFP+ ports 1G / 10 G	I Power supply unit LED
Off Green Green, blinking Orange Orange, blinking	Off Green Orange Orange, blinking
D SFP+ ports 1G / 10G (combo ports)	
Off Green Green, blinking Orange Orange, blinking	
E TP Ethernet ports 1G / 2.5G / 5G / 10G (combo ports)	
Off Green left / right Green, blinking left / right Orange left / right Orange, blinking left / right	

Hardware	Exchangeable power supply (110-230 V, 50-60 Hz)
Power supply	max. 105 watts
Environment	Temperature range 0–40°C, humidity 10–90% non-condensing
Housing	Robust metal housing, 19" 1U (442 x 44 x 375 mm > W x H x D), network connectors on the front
Number of fans	2 exchangeable fan modules
Interfaces	
SFP-DD	4 SFP-DD (25 / 50 Gbps) stacking ports
QSFP+ / SFP28	2 QSFP+ (40 Gbps) / 4 * SFP28 (10 / 25 Gbps) Flex uplink ports for connecting higher-level core switches, content servers, or data centers
SFP+ / TP-Ethernet Combo-Ports	Each 4 SFP+ (1 / 10 Gbps) / TP-Ethernet (1 / 2.5 / 5 / 10 Gbps) combo ports for use as additional downlink ports or for connection to a NAS or router
SFP+	16 SFP+ (1 / 10 Gbps) downlink ports for aggregation of subordinate access switches
Console	1 RJ-45 / 1 Micro USB
USB	1 USB
OOB-Management	1 RJ-45
Package Content	
Mounting material	Rack mounting system consisting of 2 mounting brackets for front mounting and 2 slide-in rails for optional rear mounting of the switch in the rack.
Power supply	1 exchangeable power supply LANCOM SPSU-250, expandable to 2 LANCOM SPSU-250 power supplies (hot swappable, for redundancy operation)
Fan modules	2 fan modules LANCOM SFAN-XS6, already mounted
Cables	1 IEC power cord, 1 serial configuration cable, 1 micro USB configuration cable



Hereby, Rohde & Schwarz Networks and Cybersecurity GmbH | Adenauerstrasse 20/B2 | D-52146 Wierselen, 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 www.rohde-schwarz.com/networks-and-cybersecurity under „Service & Support → Online documentation → Compliance & product certifications“.