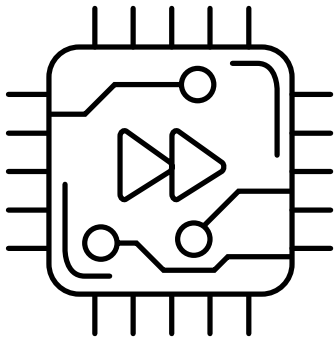


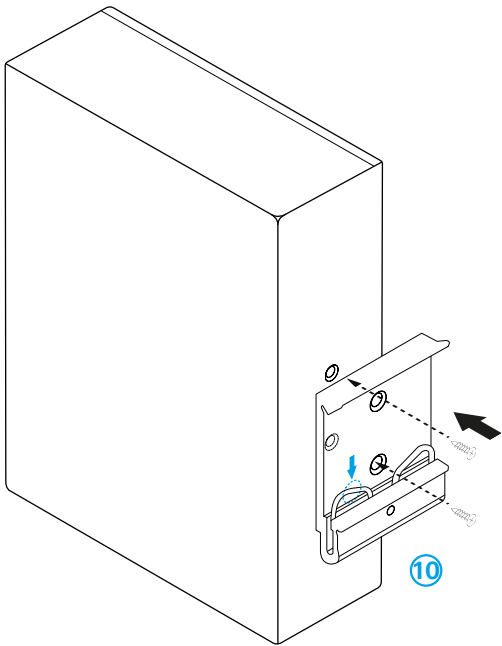
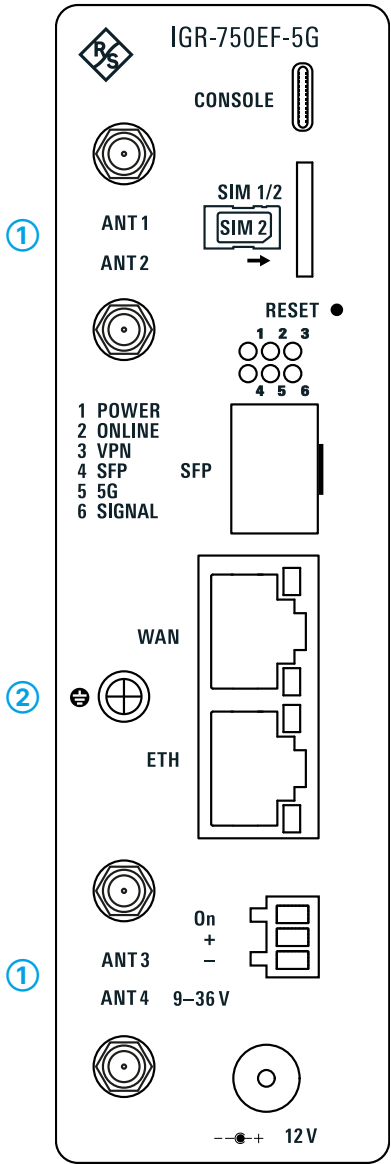
# Hardware Quick Reference

## R&S®LANCOM IGR-750EF-5G

Mounting & connecting



Cloud-ready

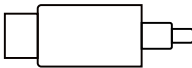


1 **5G antenna connectors**  
Screw the supplied antennas to the connectors ANT 1 - ANT 4.



2 **Ground terminal**

3 **Serial USB-C configuration interface**  
A USB-C cable can be used for optional configuration of the device on the serial console. (cable not included)



4 **Dual Nano SIM card slot**  
The SIM card holder fits into the slot in only one orientation. The left slot of the SIM card holder is for SIM 1, and the right slot is for SIM 2. When inserting the SIM cards into the card holder, note the markings indicating the correct orientation and make sure the SIM cards snap into place when inserted. To remove the SIM card holder from the device, gently press it into the slot. This will release the SIM card holder from its locked position in the slot.

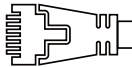


5 **Reset button**  
Pressed up to 5 seconds: device restart  
Pressed until first flashing up of all LEDs: configuration reset and device restart

6 **SFP interface**  
Insert a suitable R&S®LANCOM SFP transceiver (e.g. 1000Base-SX or 1000Base-LX) into the SFP port. Choose a cable compatible with the SFP transceiver and connect it as described in the SFP transceiver's mounting instructions. SFP module and cable are not included.



7 **WAN interface 10M / 100M / 1G**  
Use a suitable Ethernet cable to connect the WAN interface to other network components.

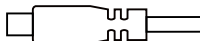


**Ethernet interface 10M / 100M / 1G**  
Use the provided Ethernet cable to connect the ETH interface to other network components.

8 **Power supply terminal**  
The control input (On) serves as a power-on signal for system startup and controlled shutdown. The main power supply is provided continuously via positive (+) and ground (-).  
**Important Note:** The device will only start up if a voltage in the range of 9–36 V is continuously applied to the 'On' pin (in a vehicle via the ignition switch; in stationary operation, by connecting a jumper to the + terminal).



9 **Power supply connection socket**  
Use only the supplied power adapter!



10 **DIN rail mounting clip**  
Use the two screws provided to secure the included DIN rail clip to the designated holes on the back of the device. Snap the DIN rail clip into place at the desired position on the DIN rail.

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.

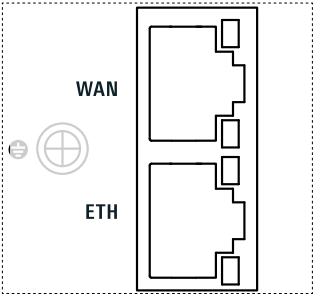
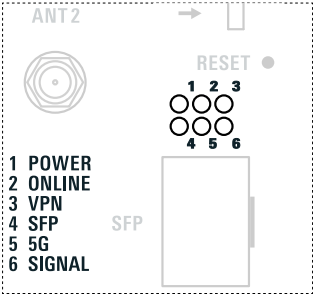
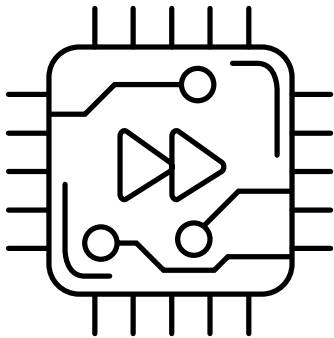
Please note that support for third-party accessories is not provided.

- ! Please observe the following when setting up the device
- ▶ When setting up on the table, use the enclosed self-adhesive rubber pads, if applicable.
  - ▶ 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.

Hardware Quick Reference

R&S®LANCOM IGR-750EF-5G

LED description & technical details



| Power                       |                                                                                                                       |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Off                         | Device switched off                                                                                                   |
| Green, permanently          | Device operational or device is paired and the R&S®LANCOM Management Cloud (R&S®LMC) is accessible                    |
| Green, blinking             | Configuration password not set. Without a configuration password the configuration data in the device is unprotected. |
| 1x green, inverse blinking* | Connection to the R&S®LMC active, pairing OK, device not claimed                                                      |
| 2x green, inverse blinking* | Pairing error, resp. R&S®LMC activation code not available                                                            |
| 3x green, inverse blinking* | R&S®LMC not accessible, resp. communication error                                                                     |
| Online                      |                                                                                                                       |
| Off                         | WAN connection inactive                                                                                               |
| Green, blinking             | WAN connection is established (e.g. PPP negotiation)                                                                  |
| Green, permanently          | WAN connection active                                                                                                 |
| Red, permanently            | WAN connection error                                                                                                  |
| VPN                         |                                                                                                                       |
| Off                         | VPN connection not active                                                                                             |
| Green, permanently          | VPN connection active                                                                                                 |
| Green, blinking             | VPN connection establishment                                                                                          |
| SFP                         |                                                                                                                       |
| Off                         | SFP deactivated in the configuration or SFP transceiver present, no connection to network device                      |
| Red, permanently            | SFP enabled in the configuration but no SFP transceiver present                                                       |
| Green, permanently          | SFP transceiver present, connection to network exists, no data transmission                                           |
| Green, flashing             | Data transmission                                                                                                     |
| Red, blinking               | SFP transceiver present, hardware error                                                                               |

| 5G                     |                                                                |
|------------------------|----------------------------------------------------------------|
| Off                    | Cellular interface disabled                                    |
| Green, permanently     | Connection to cellular network active                          |
| Green, flickering      | Cellular data transfer                                         |
| Orange, permanently    | Logon to cellular networksuccessful                            |
| 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                                      |
| Signal                 |                                                                |
| Off                    | No cellular reception                                          |
| Green, permanently     | Good signal strength greater than or equal to -70 dB           |
| Orange, permanently    | Medium signal strength between -86 and -71 dB                  |
| Orange, blinking       | Low signal strength less than -87 dB                           |
| WAN                    |                                                                |
| Green, orange off      | No networking device connected                                 |
| Green, permanently     | Connection to network device operational, no data transmission |
| Green, flickering      | Data transmission                                              |
| Orange off             | 1000 Mbps                                                      |
| Orange, permanently    | 10 / 100 Mbps                                                  |
| ETH                    |                                                                |
| Green, orange off      | No networking device connected                                 |
| Green, permanently     | Connection to network device operational, no data transmission |
| Green, flickering      | Data transmission                                              |
| Orange off             | 1000 Mbps                                                      |
| Orange, permanently    | 10 / 100 Mbps                                                  |

| Hardware                |                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply            | 12 V DC, external power adapter<br>9 – 36 V DC, terminal block<br>For an overview of the power supplies compatible with your device, see <a href="#">here</a> .                                                                                                                   |
| Environment             | Temperature range during operation without SFP transceiver: -20 – 50 °C<br>Temperature range during operation with SFP transceiver (max. 1,6 W): -20 – 40 °C<br>Humidity 0 – 95 %, non-condensing                                                                                 |
| Housing                 | Sturdy metal housing, IP-50 protection rating, designed for DIN rail mounting, 133 x 98 x 38 mm (H x D x W)                                                                                                                                                                       |
| Interfaces              |                                                                                                                                                                                                                                                                                   |
| WAN                     | 10 / 100 / 1000 Mbps Gigabit Ethernet                                                                                                                                                                                                                                             |
| ETH                     | 10 / 100 / 1000-Mbps Auto sensing                                                                                                                                                                                                                                                 |
| SFP                     | Slot for small form-factor pluggable Gigabit Ethernet transceiver (mini-GBIC). Compatible with optional R&S®LANCOM SFP transceivers for fiber optic connections up to a maximum power consumption of 1.6 W.<br>Switched as WAN port at delivery, can be configured as LAN port.   |
| 5G                      | 4 SMA connectors for the supplied dipole rod antennas, suitable R&S®AirLancer antennas for 5G or 4G or other manufacturers. Please take into account the legal regulations of your country for the operation of antenna systems (especially antenna gain and transmission power). |
| Configuration interface | Serial USB-C configuration interface                                                                                                                                                                                                                                              |
| Package contents        |                                                                                                                                                                                                                                                                                   |
| Cables                  | 1 Ethernet cable, 3m                                                                                                                                                                                                                                                              |
| Antennas                | 4 5G / 4G antennas for 5G / LTE                                                                                                                                                                                                                                                   |
| Power adapter           | External power adapter                                                                                                                                                                                                                                                            |
| Mounting material       | DIN rail mounting clip, including two screws                                                                                                                                                                                                                                      |
| Terminal clamp          | 3-pin (2.5 mm pitch)                                                                                                                                                                                                                                                              |

\*) The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the R&S®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, Rohde & Schwarz Networks and Cybersecurity 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 [www.rohde-schwarz.com/networks-and-cybersecurity](#) under 'Service & Support → Online documentation → Compliance & product certifications'.