

Dashboard

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This section is intended to provide the main information about the wireless unit operation.

The Dashboard displays a read-only summary of the current link status information, local and remote device signal strength, capacity for downlink and uplink, current values of the basic configuration settings and Ethernet network status.

Device status

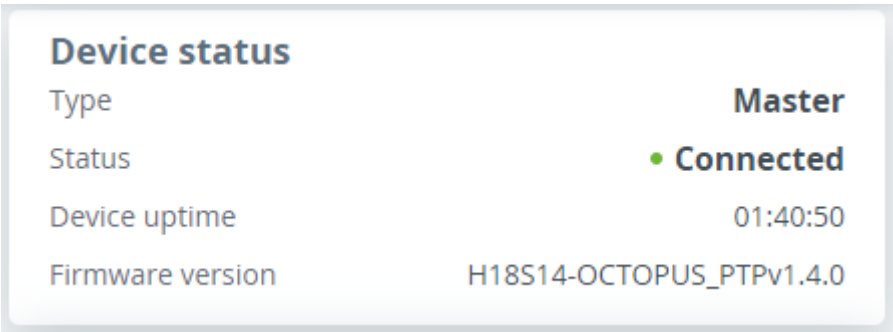


Figure - Device status

Parameter	Description
Type	The device type: Master or Slave.
Status	Wireless connection state.
Device uptime	The device operating time since the last reboot.
Firmware version	The firmware version uploaded to the device.

Wired interface

In the "Wired interface" tab, the Ethernet interface status can be monitored, as well as media type, duplex mode and traffic load for reception and transmission. The wired interface statistic is available on the right side, it can be reset by the "Clear counters" button.

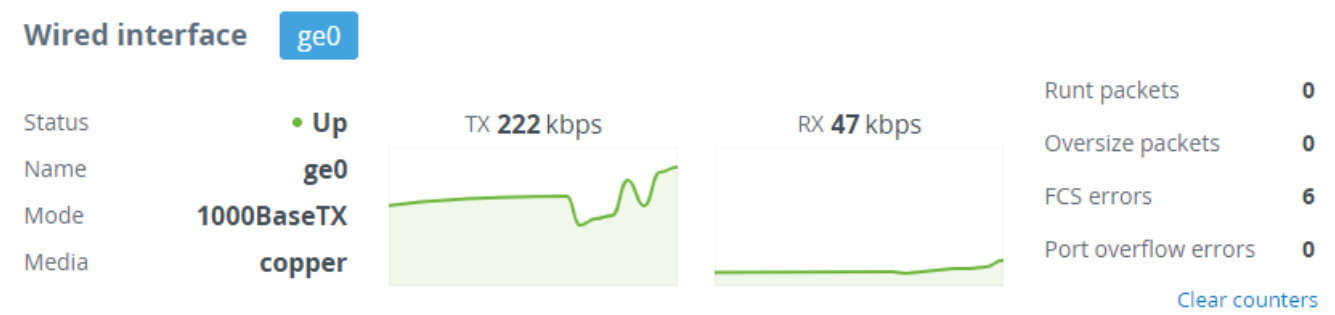


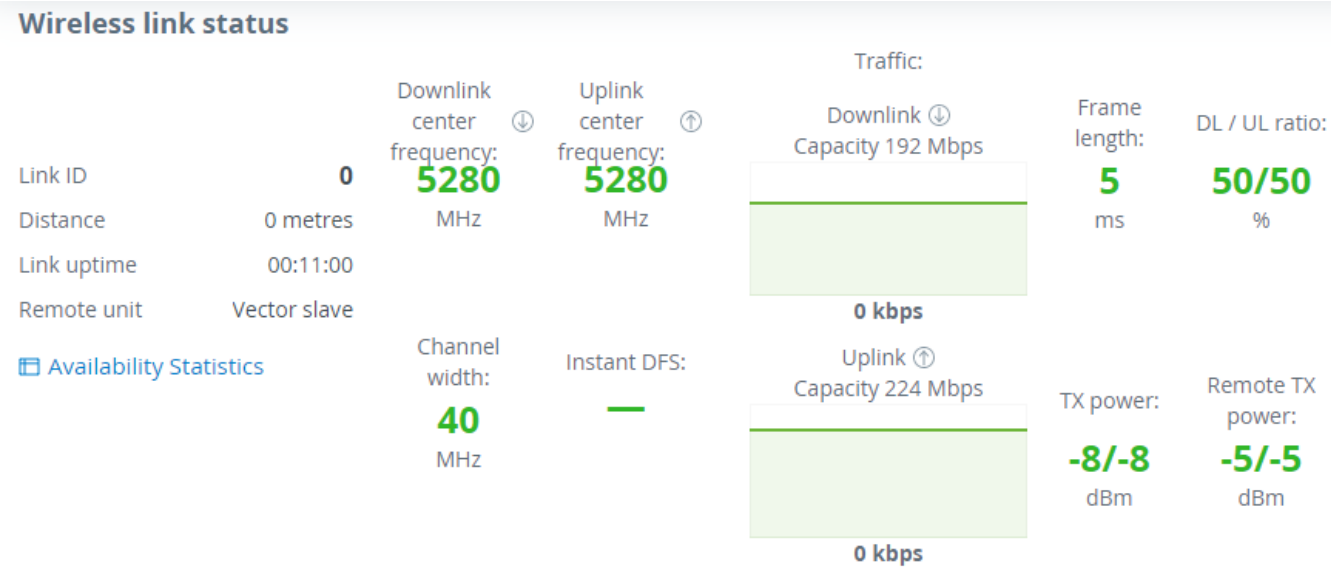
Figure - Wired interface paraqmeters

Parameter	Description
Runt packets	Packets less than 64 bytes in size
Oversize packets	Packets larger than 9038 bytes
FCS errors	Packets dropped due to checksum mismatch. The possible reasons for the error counter increasement are described in the "Troubleshootin g" article

Port overflow errors	Packets dropped due to port buffer overflow
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Wireless link status

The “Radio” tab displays the current settings of the wireless connection, as well as the link load in the uplink and downlink directions.



Availability Statistics

Link Availability Statistics

Status	Current uptime	Total uptime	Availability	Disconnection	Last outage	Total outage
Connected	00:49:53	02:24:42	97,1%	4	00:01:06	00:04:23

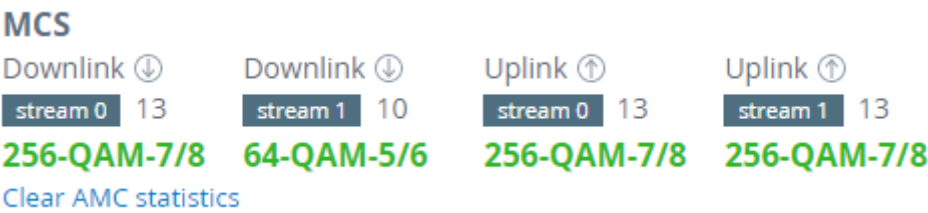
MCS Availability Statistics, %

Modulation	TX, Stream 0	TX, Stream 1	RX, Stream 0	RX, Stream 1
QPSK-1/4	97	97	97	97
QPSK-1/3	97	97	97	97
QPSK-1/2	97	97	97	97
QPSK-5/8	97	97	97	97
QPSK-3/4	97	97	97	97

Figure - Availability statistics

Modulation code scheme

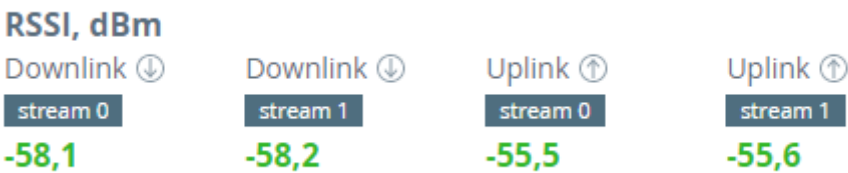
Modulation and coding schemes are selected independently for each channel (uplink and downlink) for both polarizations. Current modulation for each channel is displayed in the MCS subsection.



Received signal strength indicator

The RSSI indicator displays the received signal level for each channel (uplink and downlink) and both polarizations. Available values:

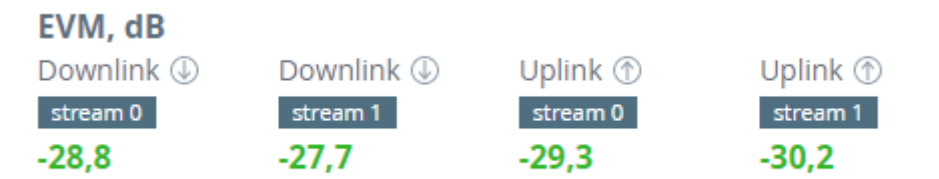
- -90...-80 dBm - close to the receiver sensitivity level, only the lowest modulations are available.
- -80...-60 dBm - average input range.
- -60...-40 dBm - the recommended range for achieving best performance.
- >40 dBm - input signal level is too high.



EVM

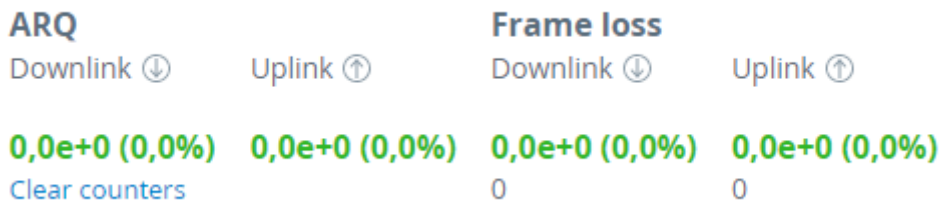
Error vector magnitude - indicator of the measured input signal quality, telling how far are the received constellation symbols compared to the ideal symbols of the constellation. The parameter value must be as high as possible in absolute value.

The recommended level should be less than -21 dB.



Retries and Frame loss

Retried and lost packets need also to be tracked. Retries should tend to zero, link with the retries value more than 5% should not be allowed to operation.



NOTE

Downlink - the direction from Master to Slave, Uplink - the direction from Slave to Master. These directions are correct for the whole link and do not depend on the roles of the devices.