

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

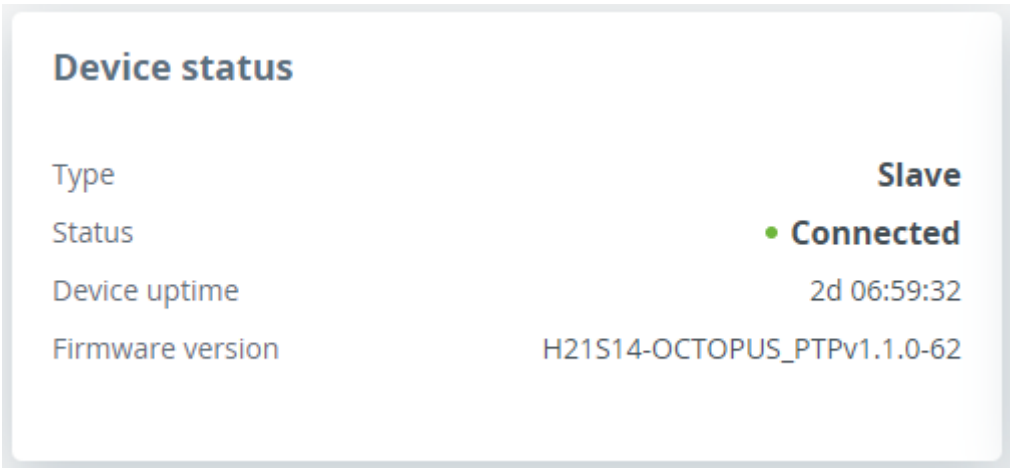


Figure - Device status

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.

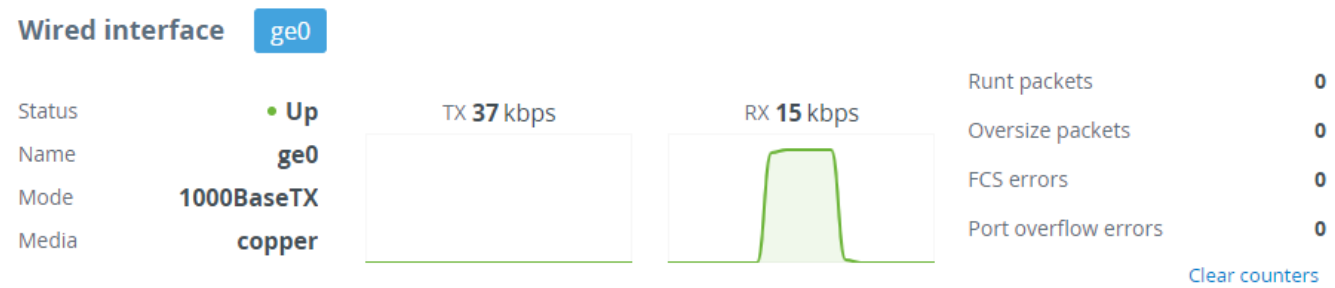


Figure - Wired interface paraqmeters

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 "Troubleshooting" article
Port overflow errors	Packets dropped due to port buffer overflow

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.

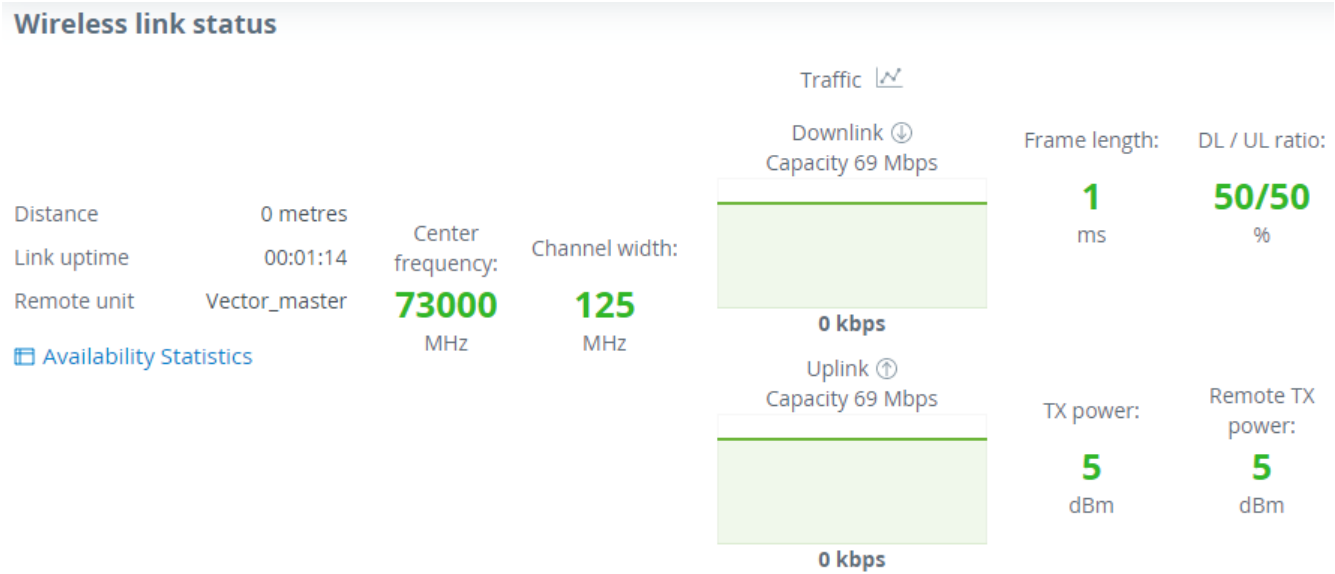


Figure - Wireless link parameters

Parameter	Description
Distance	The estimated link length.
Link uptime	The link operating time since the last outage.
Remote unit	The remote device name.
Center frequency	Center frequency value set in the "Radio" section manually or by the automatic frequency selection mechanism.
Channel width	The channel width value set in the "Radio" section.
Traffic	The wireless link capacity and utilization in the uplink and downlink directions.
Frame size	The frame size value set in the "Radio".
DL / UL ratio	The ratio of the downlink traffic to uplink, set in the "Radio" section manually or by a mechanism for automatically determining the optimal ratio.
Tx power	The transmitter power value on the local device determined by the automatic power control mechanism. If the automatic transmit power control tool is disabled, the value set manually by the user will be displayed.
Remote X power	The transmitter power value on the remote device determined by the automatic power control mechanism. If the automatic transmit power control tool is disabled, the value set manually by the user will be displayed.

Availability statistics

The link availability statistics window displays the following information:

- The overall wireless link availability since the last device reboot, the number of wireless outages when the connection was unavailable.

- Availability statistics for each modulation, for downlink and uplink streams.

Availability Statistics

[Clear Availability Statistics](#)

Link Availability Statistics

Status	Current uptime	Total uptime	Availability	Disconnection	Last outage	Total outage
Connected	00:01:14	2d 05:46:03	97.25%	1224	00:00:04	01:31:19

Modulation	Downlink	Uplink
BPSK-1/4	97.24739	97.24739
BPSK-1/2	95.09255	95.08954
QPSK-1/2	95.09205	95.08954
QPSK-3/4	95.09105	95.08753
16-QAM-1/2	54.15498	34.53445
16-QAM-3/4	9.37389	9.37138
64-QAM-2/3	0	0
64-QAM-5/6	0	0

Figure - Availability statistics

Modulation code scheme

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

MCS

Downlink

Uplink

QPSK-3/4

QPSK-3/4

MCS: 3

MCS: 3

[Clear AMC statistics](#)

Received signal strength indicator

The RSSI indicator displays the received signal level for each channel (uplink and downlink). 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.

RSSI, dBm

Downlink	Uplink
-63.4	-65.3

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.

EVM, dB

Downlink	Uplink
-8.6	-8.4

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.

ARQ

Downlink	Uplink
0.0e+0 (0.0%)	0.0e+0 (0.0%)
Clear counters	

Frame loss

Downlink	Uplink
0.0e+0 (0.0%)	0.0e+0 (0.0%)
0	0



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.