



# MANTISWAVE

## NETWORKS

### Technical Specifications:

<b>Technology</b>	5G NR SA
<b>Frequency bands</b>	any 3GPP FR1 band up to 6GHz (defaults Bands 41 and 78)
<b>Channel bandwidth</b>	up to 40 MHz (default bands 20 MHz and 40 MHz)
<b>Max. throughput</b>	120 Mbps
<b>Standards</b>	3GPP Rel. 15/16 (aligned with OAI roadmap)
<b>Antennae</b>	SISO
<b>Max. UEs</b>	-----
<b>Max. gNB EIRP</b>	10 dBm (10 mW)
<b>Duplex mode</b>	TDD with configurable slot structure
<b>Range</b>	Up to 80 m
<b>Power supply</b>	110 V and 220 V
<b>Operating temp</b>	-10° C to 40°C
<b>SDR card</b>	NI USRP B210 [1]
<b>Sampling Rate</b>	46.08 Msps on the internal USRP.
<b>RF Cable kit</b>	Optional RF cables to avoid over-the-air transmission
<b>Dashboard</b>	Access to all features of the MANTISWAVE Dashboard .
<b>UE</b>	Quectel, OnePlus 8T,9R & Other UEs

### UE and SIM card:

The MANTISWAVE is delivered with a QUECTEL RM500CN/Private 5G Box which contains a SIM card already programmed. This QUECTEL RM500-CN module has antennas integrated with the 5G modem and, therefore, there is no need to connect external antennas to the UE. No additional configurations are required for authenticating devices using the provided SIM card.

The SIM card specifications are as follows:

- MSI: 001010000000001
- Key: fec86ba6eb707ed08905757b1bb44b8f
- OPC: C42449363BBAD02B66D16BC975D77CC1
- It is configured for 3GPP: GSM, WCDMA, LTE, NR with milenage algorithm to perform 3GPP standard subscriber identification.
- The card is also open for later personalization by our customers.

### Contact us:

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