Request for Application for Original Equipment

TO WHOM IT MAY CONCERN

About our product: MTK982

FCC IF: POUMTK982

The MTK982 is a dual wireless transmitter.
It operates in the UHF band from 470MHz to 960 MHz but the frequency range is limited at the Wisycom factory to comply with FCC regulations.
The transmitter is not able to operate outside the band allowed in the USA market.
The frequency ranges that can be set on the transmitter are as follows:

Allowed frequency range [MHz]
470 - 608
614 - 616
653 - 663
941,5 - 952
952,85 - 956,25
956,45 - 959,85

The output power is selectable from 10mW to 1000mW.
The maximum transmitter power settable on the transmitter is frequency depending.
The MTK982 is configured in Wisycom factory to meet with the FCC regulation according to the following table:

Freq range [MHz]	Max set. power [mW] selectable by menu or thru the Manager application
470 - 608	250
614 - 616	20
653 - 663	20
941,5 - 952	1000
952,85 - 956,25	1000
956,45 - 959,85	1000

The maximum settable power and the allowed frequency range are preconfigured in Wisycom factory in a part of memory of the device no modifiable by the user. The firmware reads the configuration and allows to the user to set only a frequency belonging to the allowed frequency ranges and a RF power level from 10mW to the maximum preconfigured.

MTK982 can works as standalone unit or with Wisycom combiners CSA121T / CSI16T models.
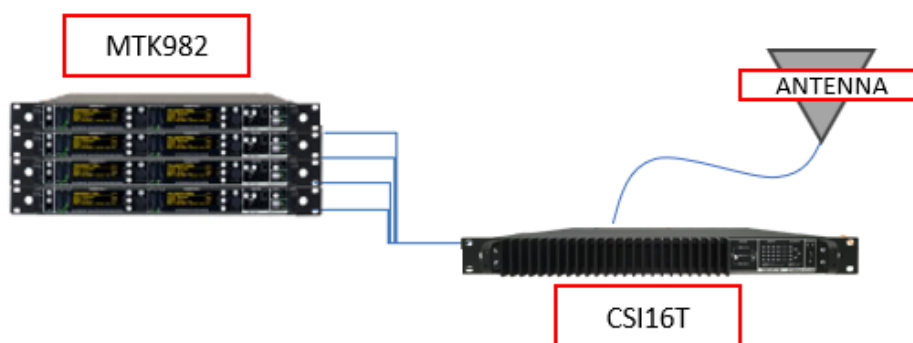When the transmitter works standalone, it works according to the pre-configured setting.
When the transmitter works with the Wisycom passive combiners CSA121T / CSI16T models, the transmitter increases the power in order to have the pre-setted power at the end of the combiner side.

Wisycom requires to homologate the transmitter MTK982 in 3 different configurations:
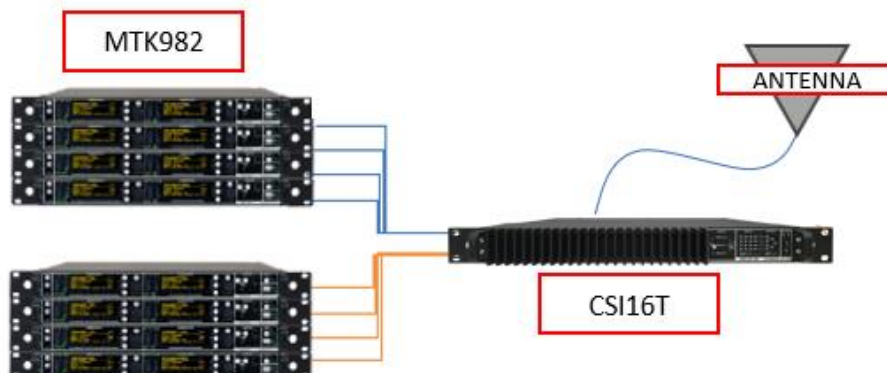
- as **standalone** unit
- with **CSA121T** (2:1 passive combiner)

- with **CSI16T** (smart passive combiner): the selector in the front panel allows to select one of the following combiner mode

  o <u>mode 1: [4:1]</u>

  <u>mode 2: [8:1]</u>

  o <u>mode 3: [16:1]</u>