

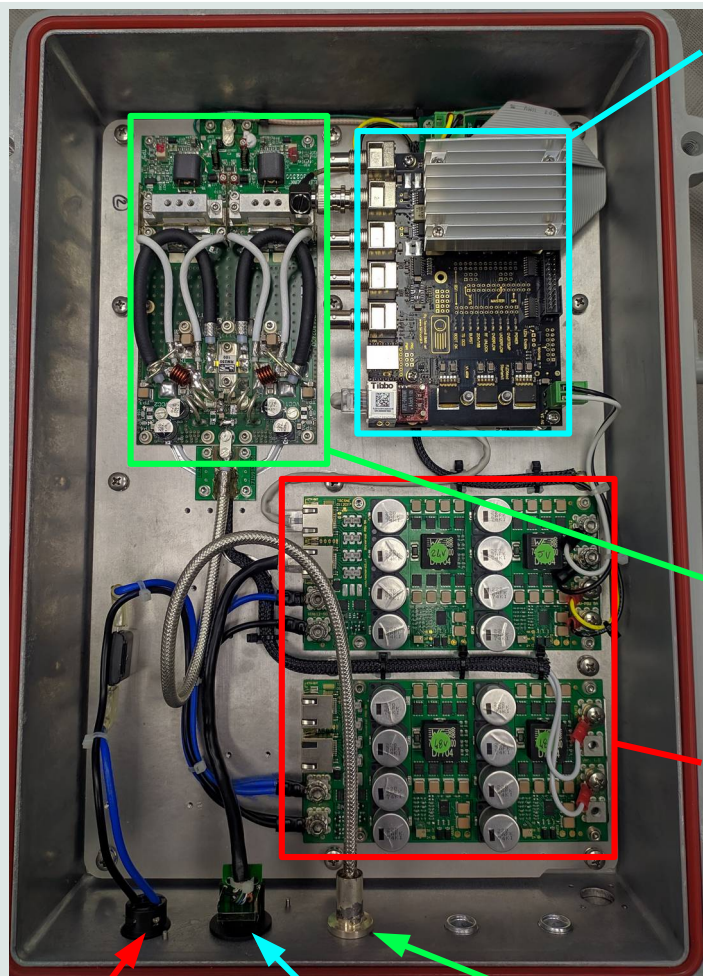
FM Radio-based Event Warning & Emergency Alert System



FM ANTENNA

OUTDOOR UNIT

FM Emergency Alert System mounted in a fixed position.



MULTICARRIER FM MODULATOR & CONTROL UNIT

Multifrequency FM modulator

Embedded RDS encoder

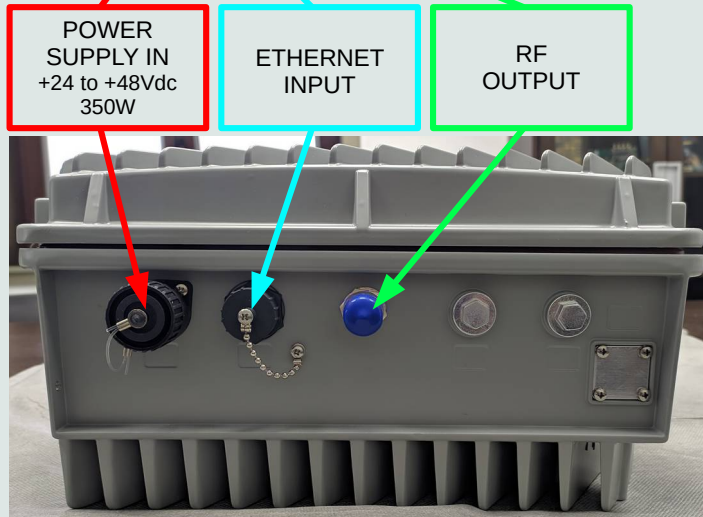
It can transmit a pre-recorded message, a voice alert (from a microphone or remotely from the headquarters) and an RDS text message.

RF AMPLIFIER

POWER SUPPLY x2



- Outdoor unit for fixed position dimensions: 442 x 312 x 165.5 mm
- Operating range -15° to 60°C
- Storage range -15° to 75°C



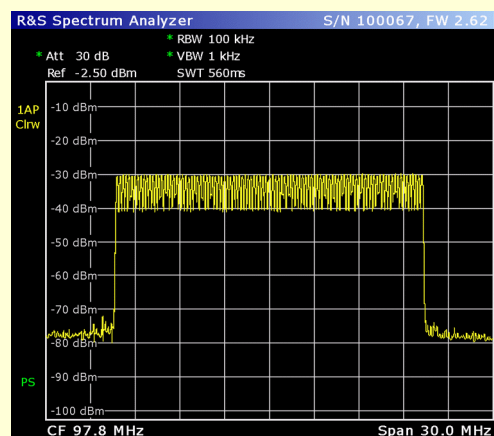
POWER SUPPLY IN
+24 to +48Vdc
350W

ETHERNET
INPUT

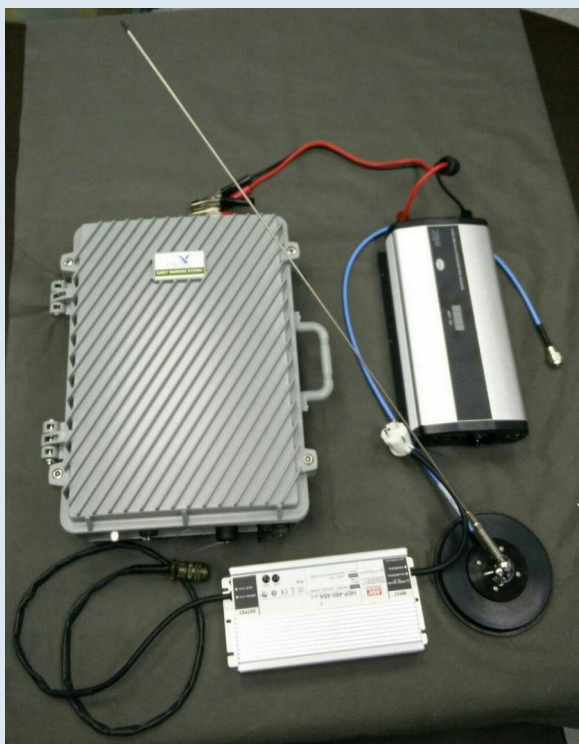
RF
OUTPUT

Multi-frequency FM modulator which can send emergency warnings and alert signals on all radio frequencies simultaneously: from 87.6MHz to 108MHz or from 87.5MHz to 107.9MHz (103 ch., 200KHz spacing).

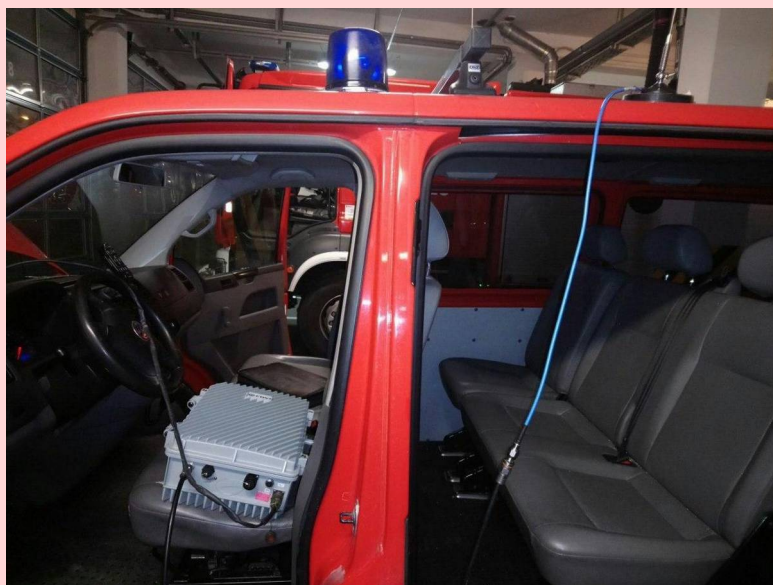
Thanks to the embedded RDS encoder, it uses the "Traffic Alert" function to make the radio switch automatically to the FM tuner, transmitting the alert signal both as an audio message and as an RDS text.



A real-case scenario: test installation for Polish firefighters



This is an example of a system used for testing purposes.

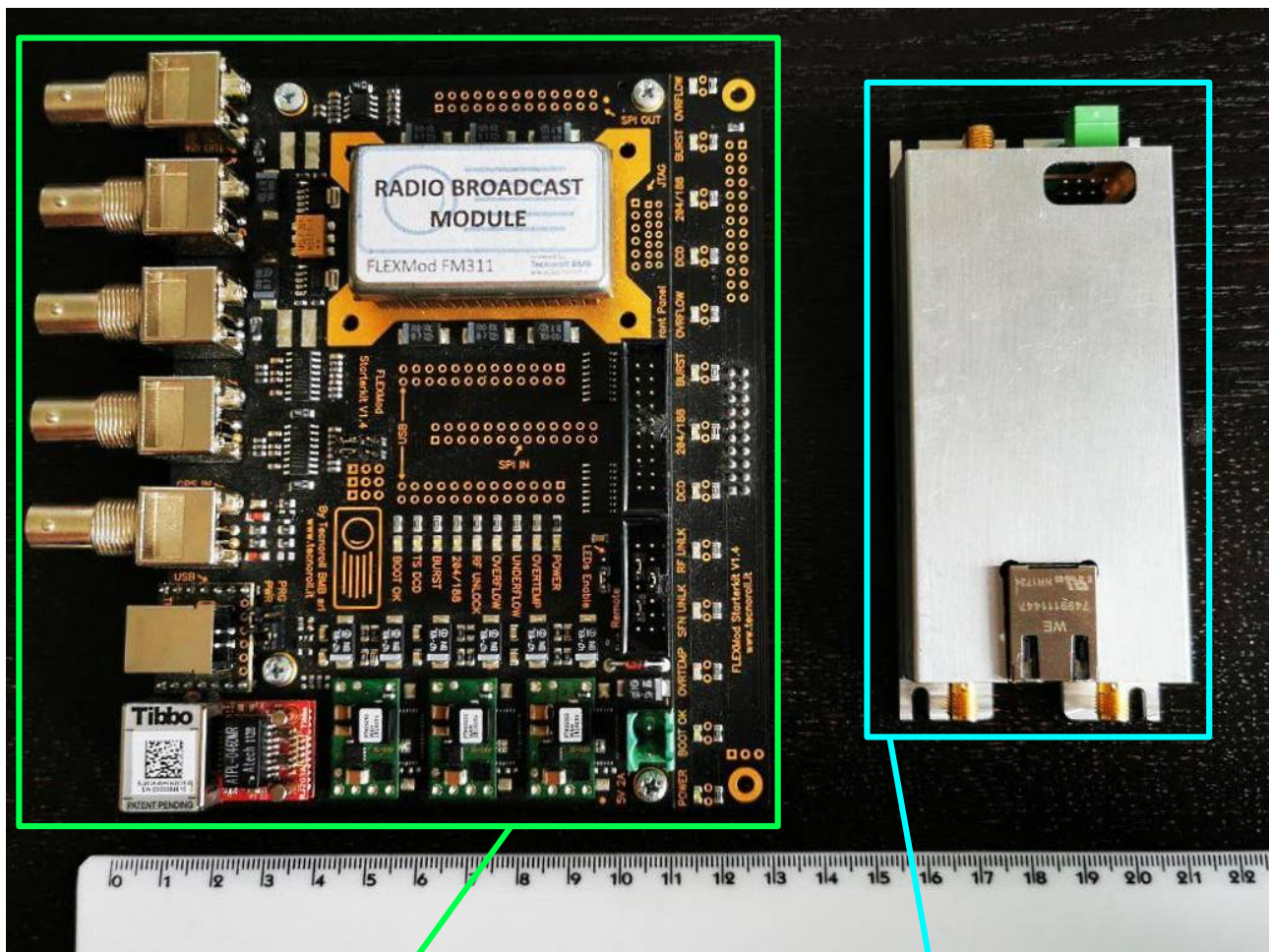


The system has been installed and tested in different types of rescue vehicles.



Expansion unit with USB audio player, SD card reader and microphone input connector.





LAB VERSION

Suitable as an evaluation,
programming and testing board.

FINAL PRODUCT VERSION