

# ISØK5EME EME Expedice

144 – 432 – 1296 – 2320 MHz



**ISØ / OK5EME**  
*VHF - UHF SHF EME DX pedition in Sardinia*

Loc: JN41SA  
Team: OK1DFC OK3RM OK1NP DL6SH

The image is a promotional graphic for an amateur radio expedition. It features a blue background with a white curved line on the left. The main title 'ISØ / OK5EME' is in large, bold, red letters with a white outline. Below it, the subtitle 'VHF - UHF SHF EME DX pedition in Sardinia' is in yellow. Two photographs are shown: one on the left shows four people standing in front of a large parabolic antenna on a hillside; one on the right shows a tall antenna structure on a rocky outcrop. The location 'Loc: JN41SA' and team members 'Team: OK1DFC OK3RM OK1NP DL6SH' are listed at the bottom.

# Why IS0 on 2011?

- No activity on 432 MHz up in previous time
- Big interesting between EME hams around globe
- Problems in Albania where we had prepare petition as a first version
- Big help of Mario IO NAA
- Only 1450 km drive by car and ferry

# Setup

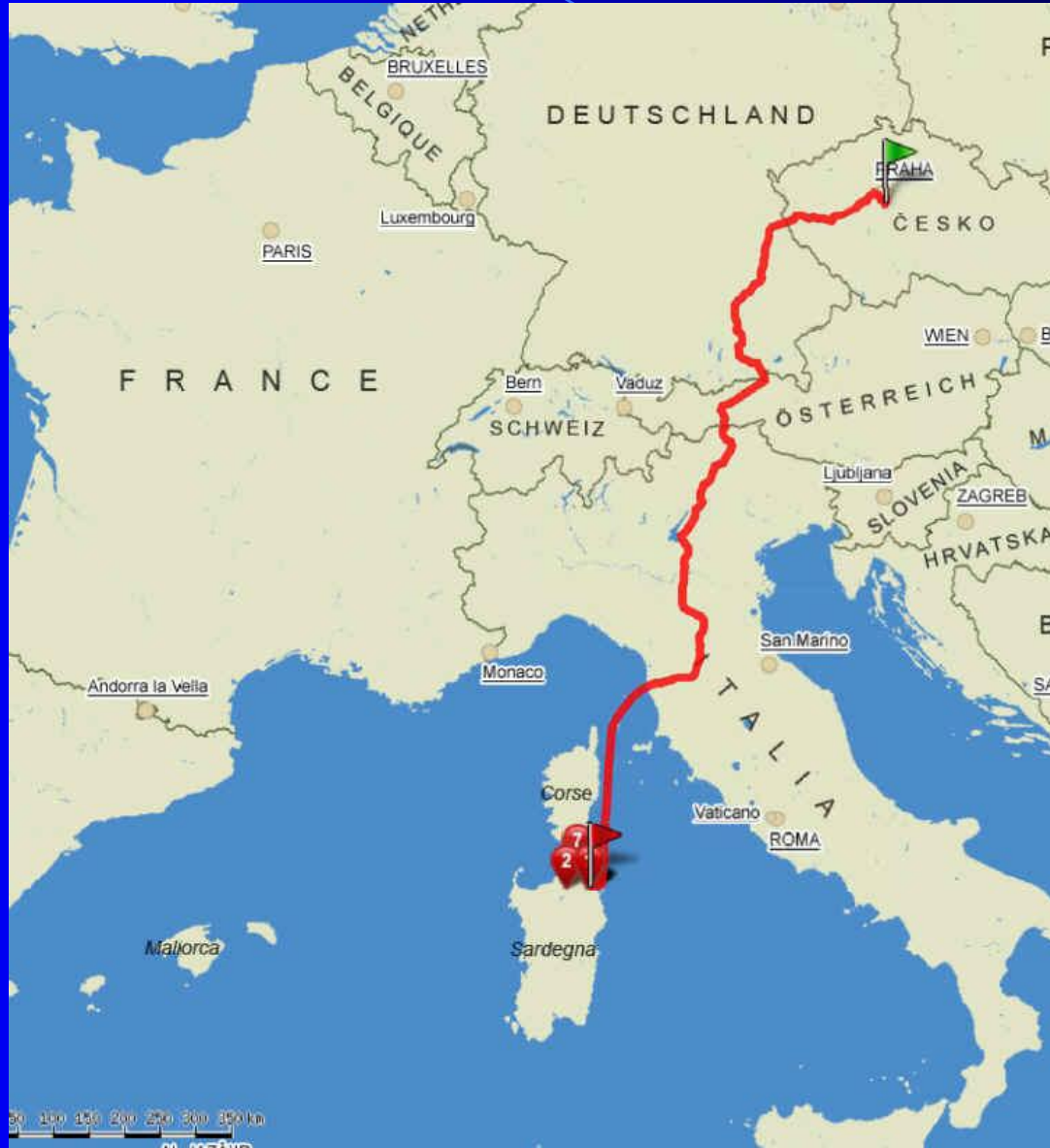
- 144 MHz** – IC9100, PA GS35B 1kW, JT65B – CW, LNA NE334 0,2 dB, 4 x 11el. LFA G0KSC
- **432 MHz** - IC7700 + new TRV OK1DFC, PA 1,5 kW RF – 2x3CPX800A7, Dish 3,2m – LNA 0,2dB – NE334, MicroHam USB interface – OE5JFL (HB9DRI) controller
- **1296 MHz** - IC7700 + new TRV, PA 0,9 kW RF – YL1330, Dish 3,2m – LNA 0,2 dB N/F – G4DDK, MicroHam USB interface – OE5JFL (HB9DRI) controller
- **2320 MHz** - IC7700 + TRV 145 MHz + new TRV, SSPA 150W out, Dish 3,2m – LNA 0,46dB N/F . G4DDK, MicroHam USB interface – OE5JFL (HB9DRI) controller
- 432 – 2320 MHz – SDR 14

# New stuff

What was necessary build as a new one:

- 144 MHz antenna system G0KSC
- Tribander TRV – 144 – 1296 MHz
- tripod for dish and new controlling system for dish with read out resolution  $0,1^{\circ}$  AZ and EL
- new feed horns 432, 1296 and 2320 MHz to improve efficiency of system
- sequencer for IC9100 on 144 MHz
- new coaxial and controlling cables with waterproof connectors Cablecon and Hartig

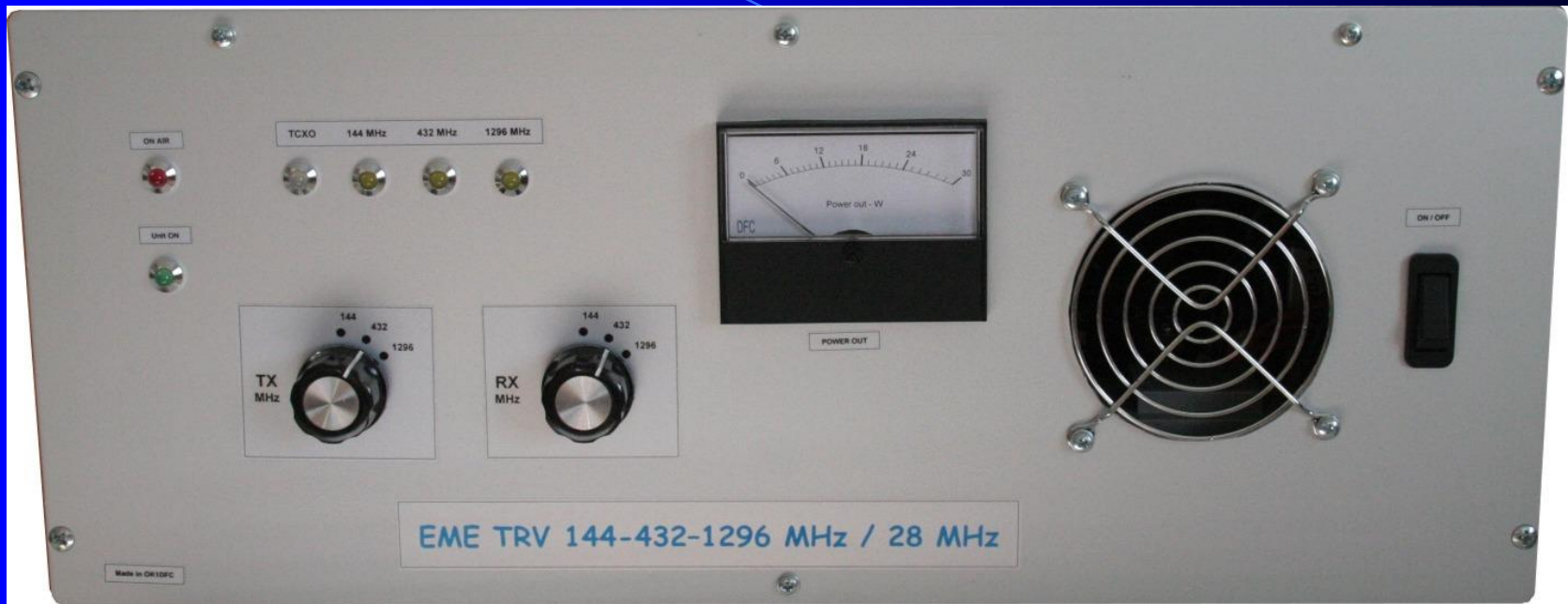
# Trip



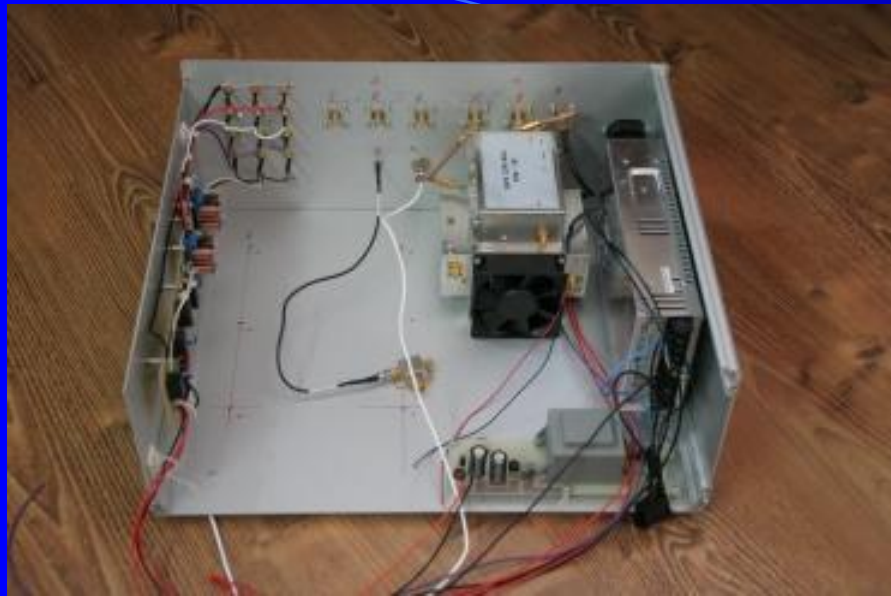
# G0KSC 4x11el.



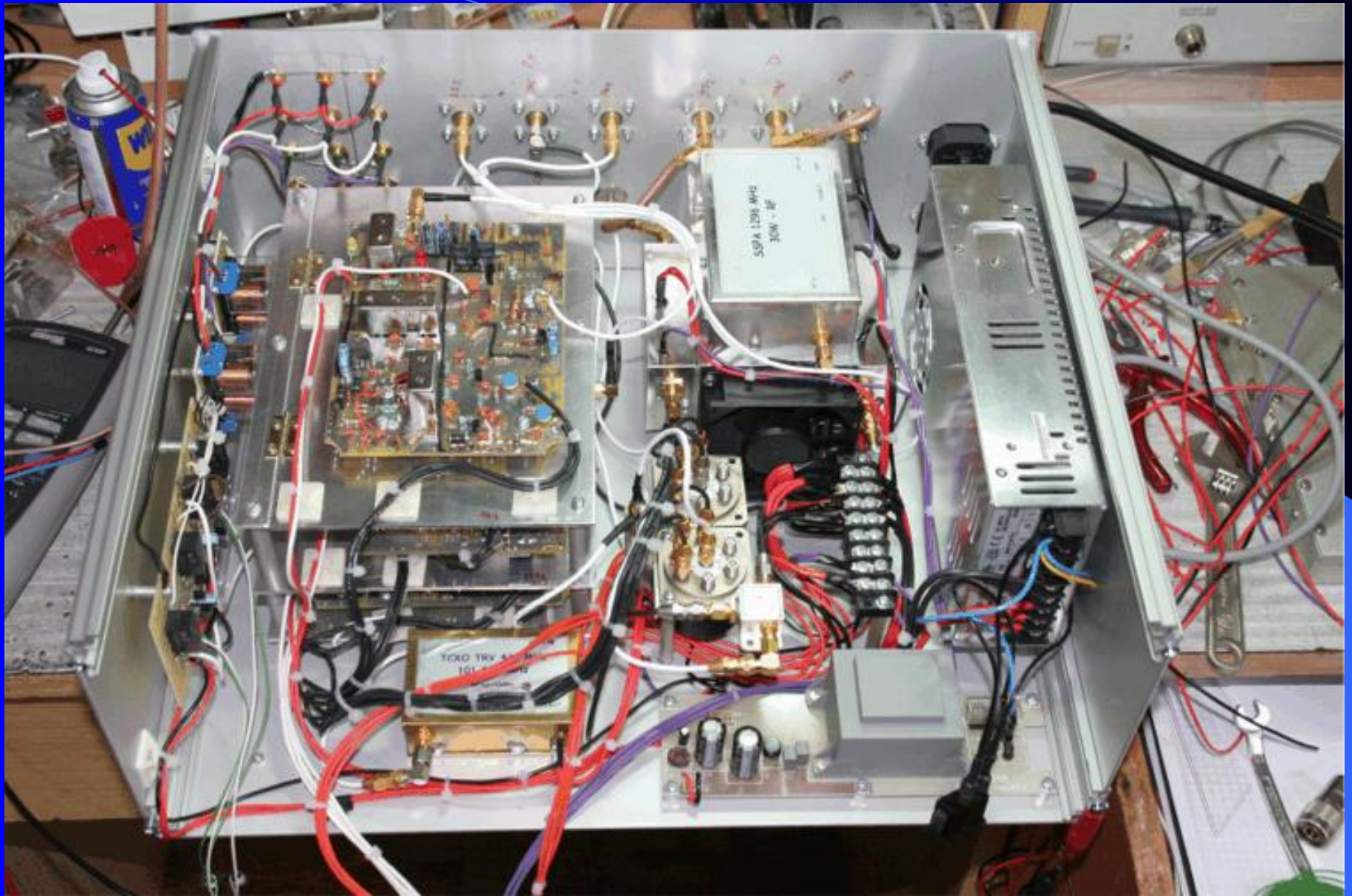
# Tribander 144 – 1296 MHz



- PLL DB6NT LO for all bands – high QRG accuracy and stability
- 30W RF each band
- Integrated sequencer, power supply etc.
- Minimizing number of connecting cables outside







# EME test with IC7700



# Tripod and control system



# New feeds

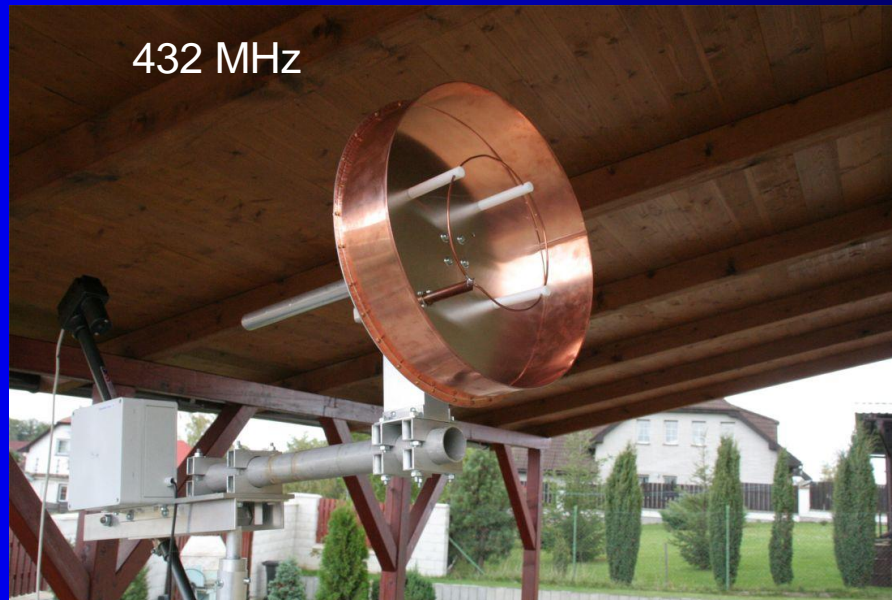
2320 MHz



1296 MHz



432 MHz



# IC9100 Interface



Logs on [www.ok1dfc.com](http://www.ok1dfc.com)

Video – 15 min. follow up

See you soon from some other  
DXCC