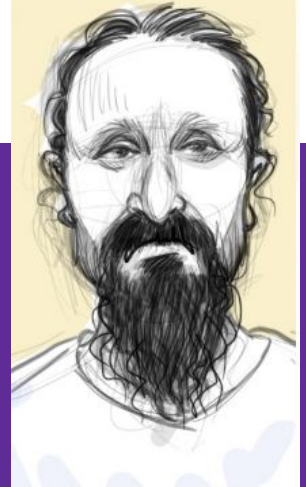


2021'de Sıkça Sorulan Sorular

- TinyGS Yer Kontrol İstasyonu
- QO-100 Uydusuna Erişim
- Magnetic Loop Anten
- Türkiye AMPR Ağı



TA1DE
VOLKAN SAMLI

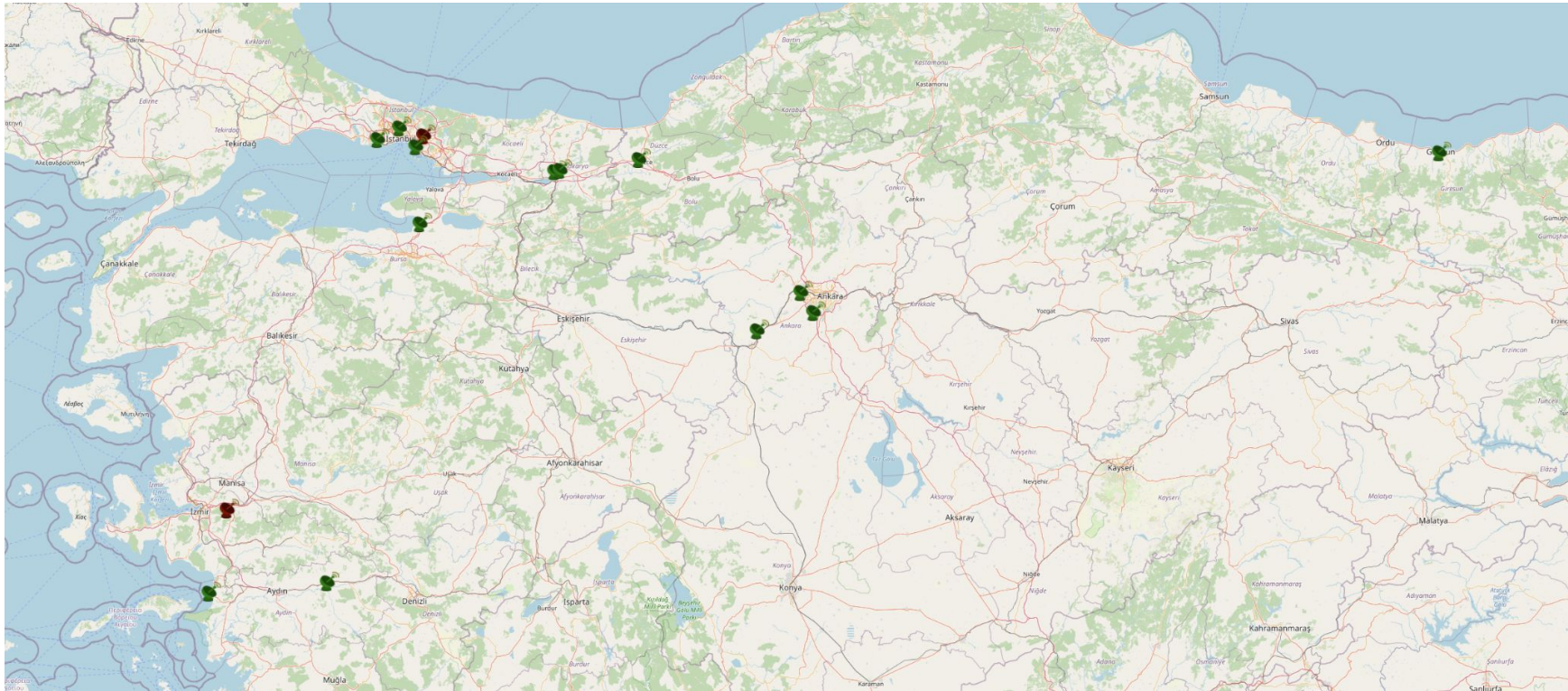


TA7W / OH2UDS
BARIS DINC

Gündem

- TinyGS Türkiye Mevcut Durumu
- TinyGS/Lora için ne satın almalıyım ?
- Nasıl bir antenim olmalı ? TinyGS kurulumunu nasıl yaparım ? Nasıl emin olurum ?
- QO-100 uydusunun önemi nedir ?
- QO-100 dinleme için nasıl bir istasyon kurmalıyım ? Ses mi Görüntü mü?
- Örnek QO-100 uydu konfigürasyonları nelerdir ?
- Manyetik Loop Anten için kapasite nereden bulurum, nasıl yaparım ?

TinyGS Türkiye Mevcut Durumu

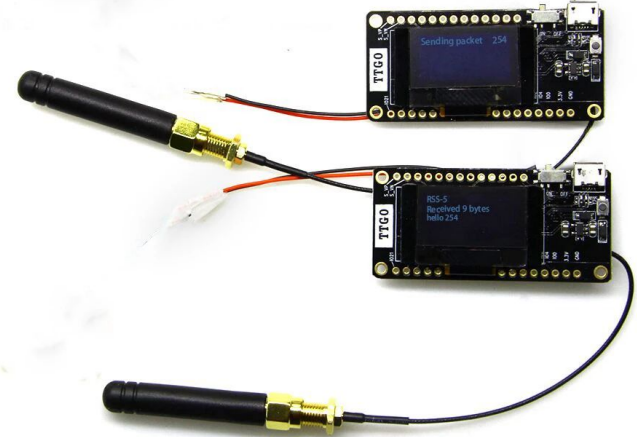
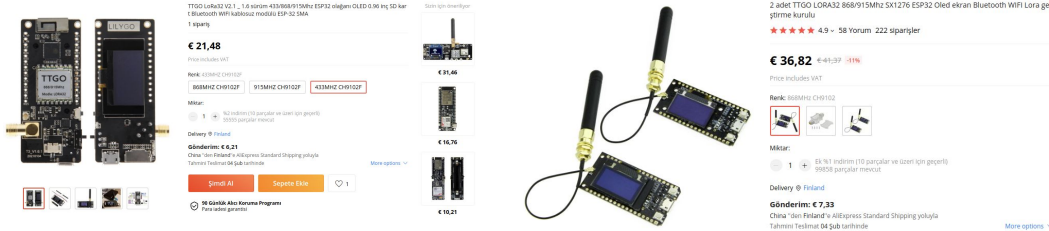


Aktif 15 istasyon

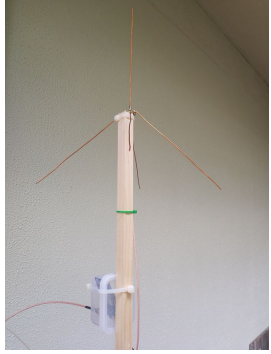
TinyGS için ne satın almalıyım ?

- Heltec WiFi LoRa 32 V1 (433MHz & 863-928MHz versions)
- Heltec WiFi LoRa 32 V2 (433MHz & 863-928MHz versions)
- TTGO LoRa32 V1 (433MHz & 868-915MHz versions)
- TTGO LoRa32 V2 (433MHz & 868-915MHz versions)
- TTGO LoRa32 V2 (Manually swapped SX1267 to SX1278)
- T-BEAM + OLED (433MHz & 868-915MHz versions)
- T-BEAM V1.0 + OLED
- FOSSA 1W Ground Station (433MHz & 868-915MHz versions)
- ESP32 dev board + SX126X with crystal (Custom build, OLED optional)
- ESP32 dev board + SX126X with TCXO (Custom build, OLED optional)
- ESP32 dev board + SX127X (Custom build, OLED optional)

LILYGO@2 adet/grup TTGO LORA32 V2.0
433/915Mhz ESP32 olağanı OLED 0.96 inç
mavi ekran SD kart ESP-32 WIFI bluetooth
modülü



Nasıl bir anten kurmalıyım ?



Çeyrek Dalga Vertikal



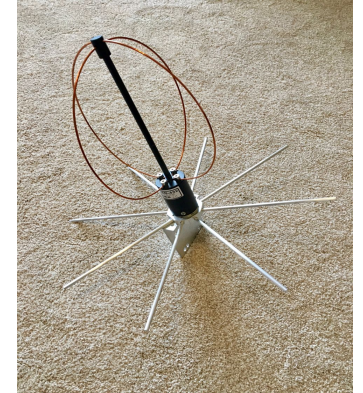
Cross Dipol



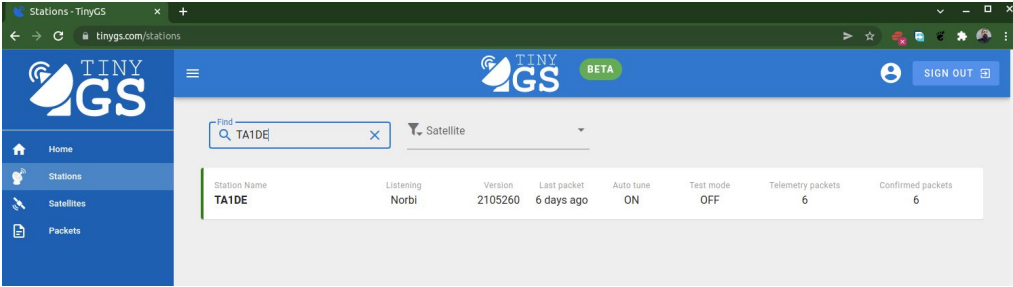
EggBEater



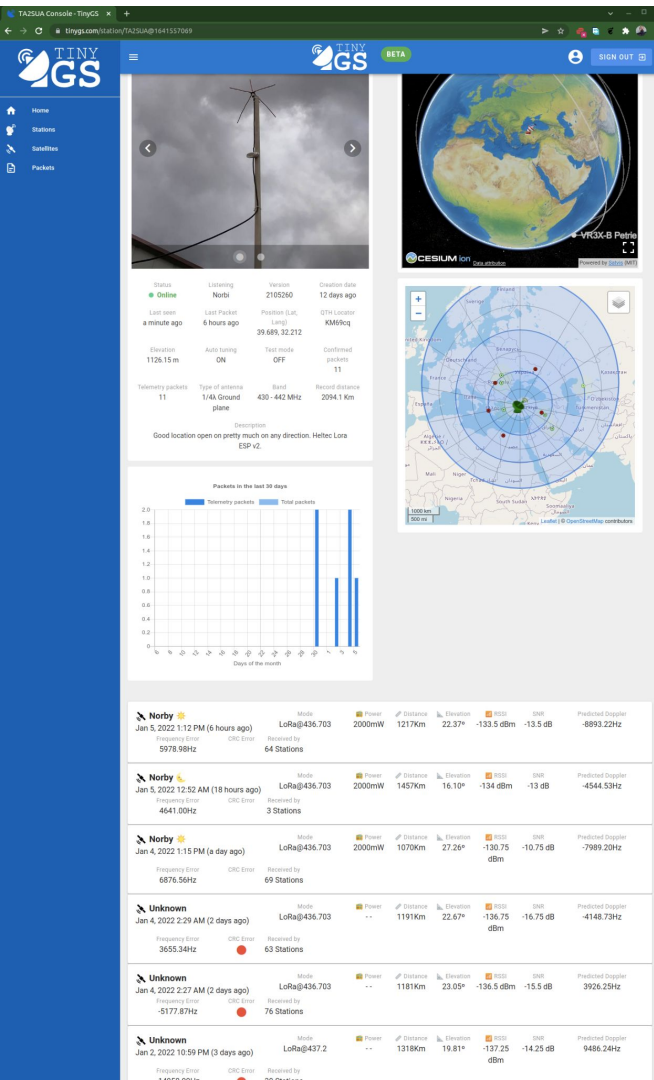
Çeyrek Dalga Monopol



Nasil Emin Olurum ?

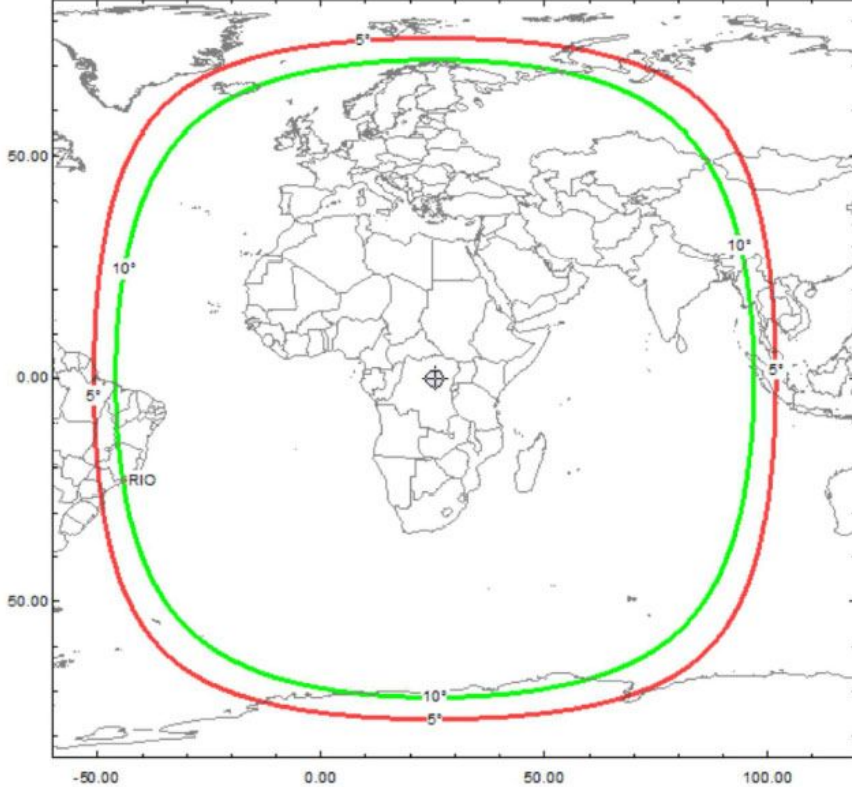


<https://tinygs.com/stations>



QO-100 Uydusunun Önemi

Coverage from orbital position of 26 deg East

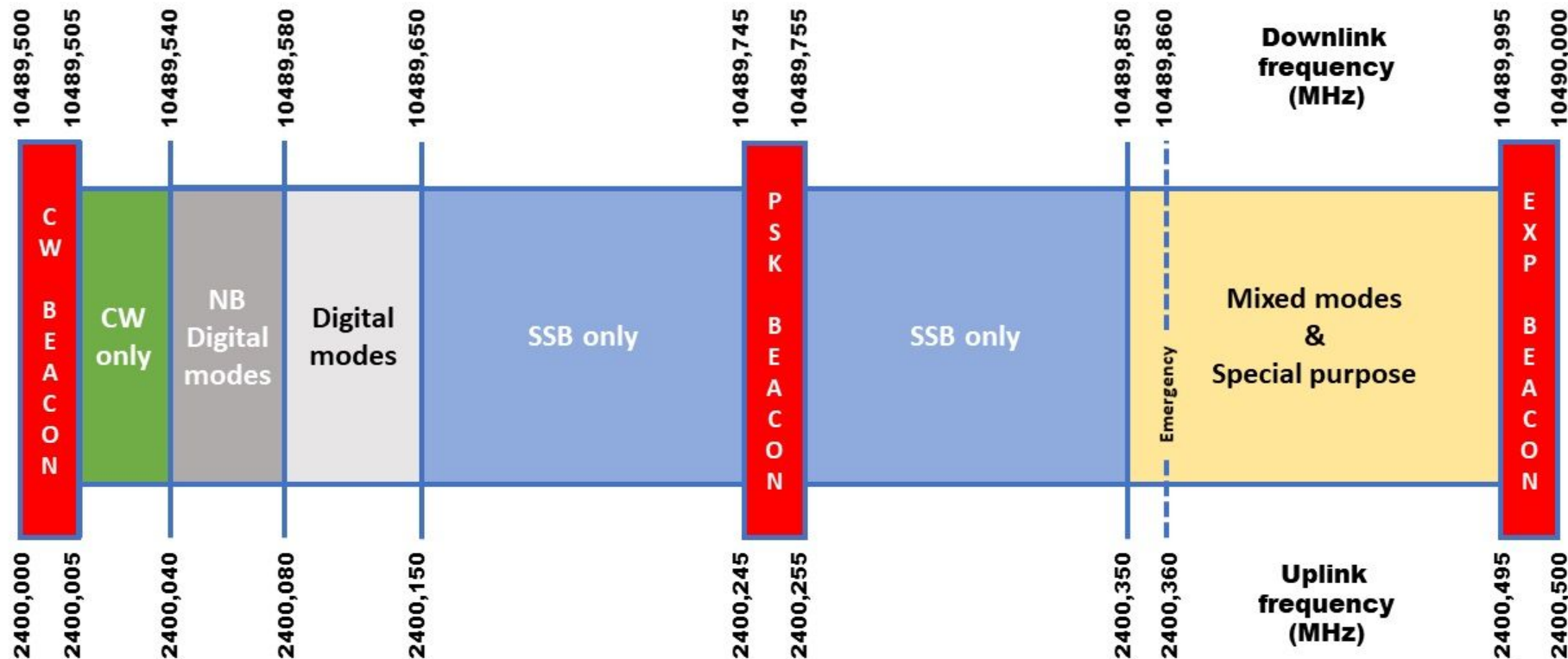


- Dünyanın %47'sini 7/24 kapsıyor
- Propagasyon beklemenize gerek yok
- Çok basit donanımlarla çalışmaya başlayabilirsiniz
- Sesli ve görüntülü görüşebilirsiniz

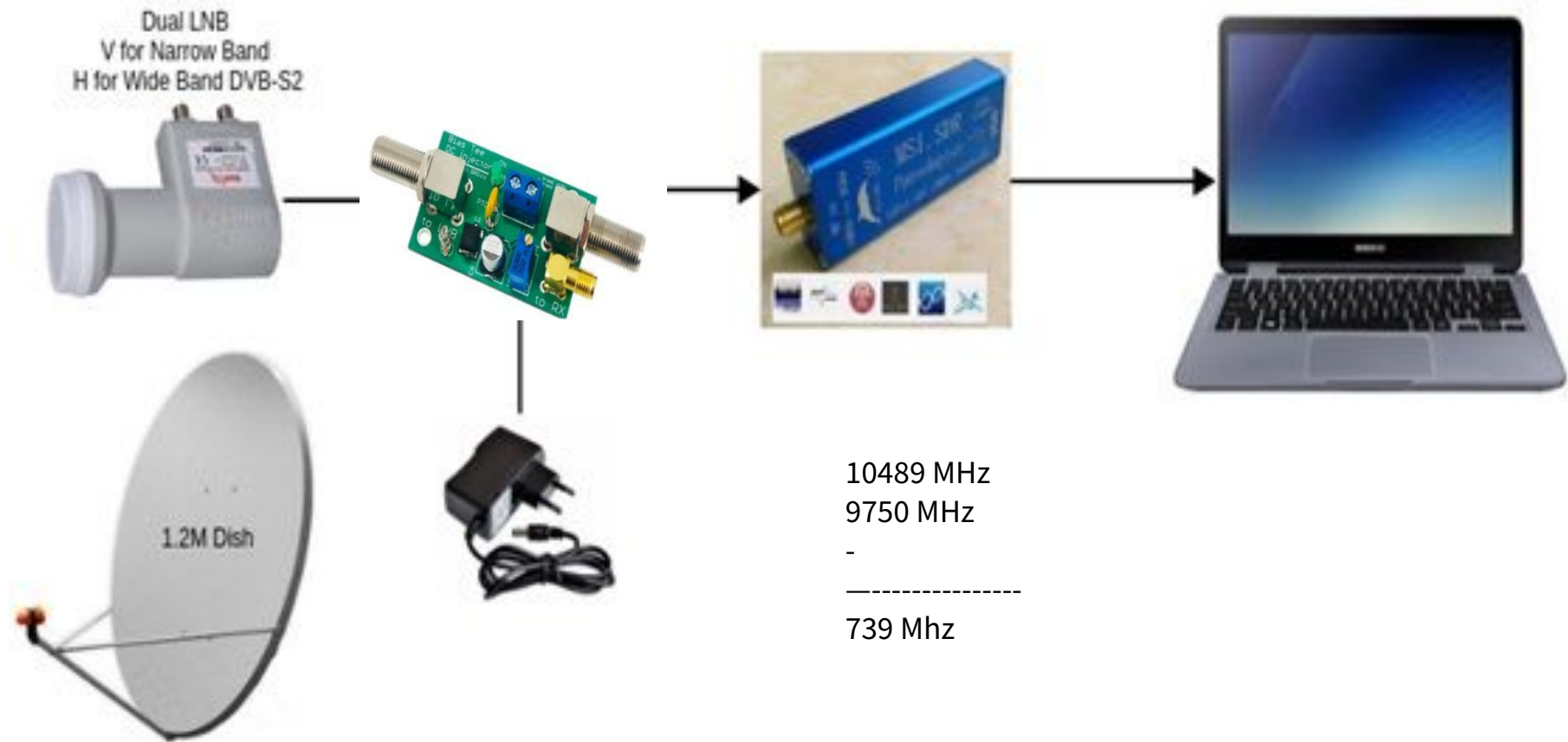
3222

AMSAT QO-100 / P4A

NB Transponder Bandplan



Basit Bir QO-100 Alıcı İstasyonu (SDR)

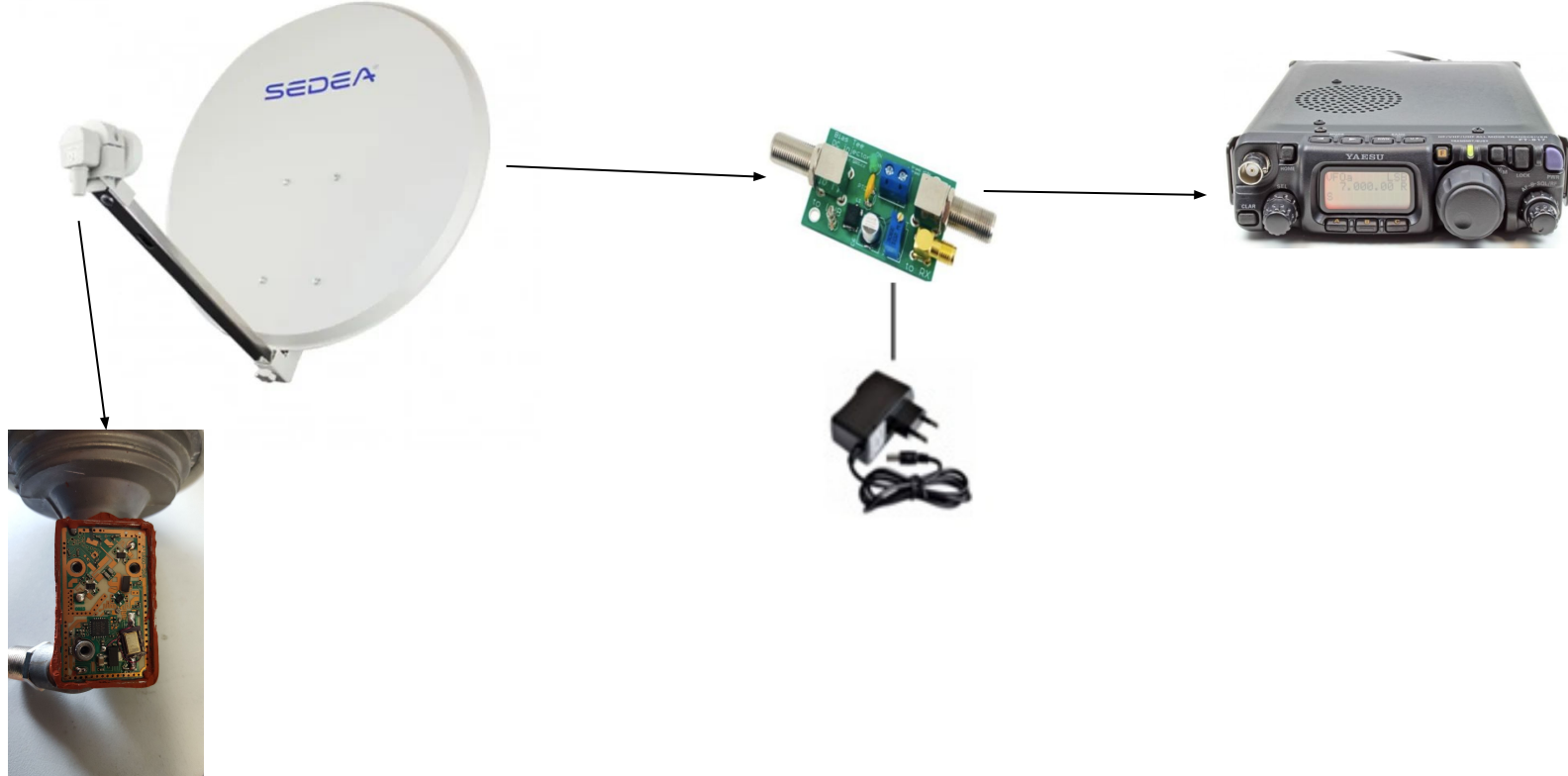


Basit Bir QO-100 Alıcı İstasyonu (DownConverter)

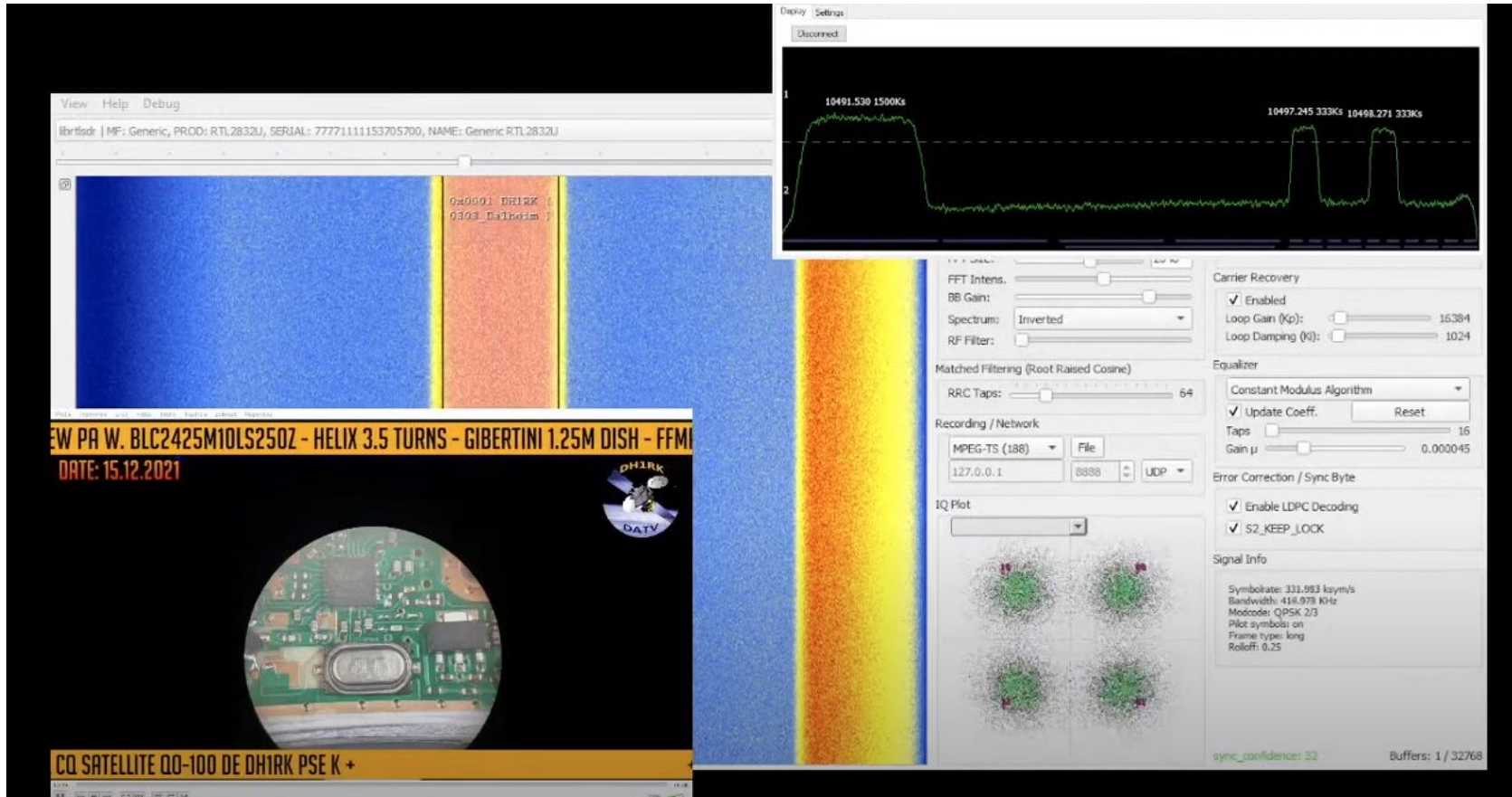


<https://www.dxpatriol.pt/>

Basit Bir QO-100 Alıcı İstasyonu (Modifiye LNB)



DATV - Digital Amateur Television (RTLSDR)

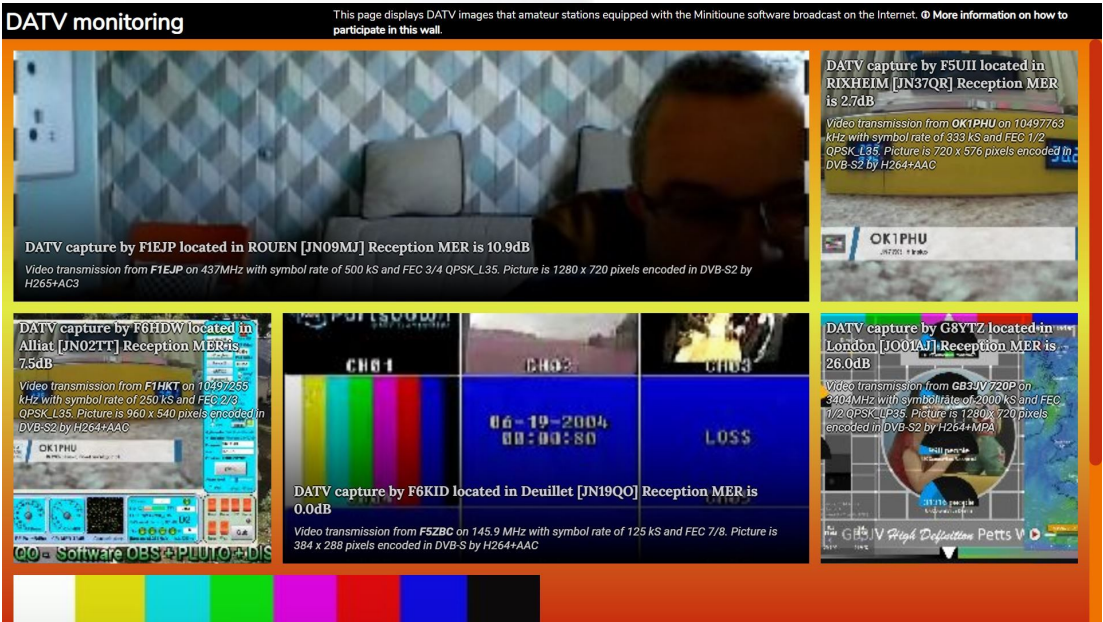
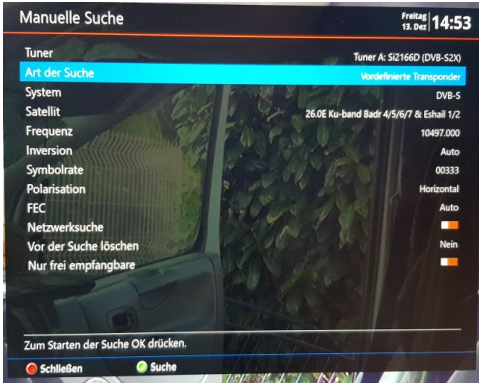


DVB-S2 Demod GUI

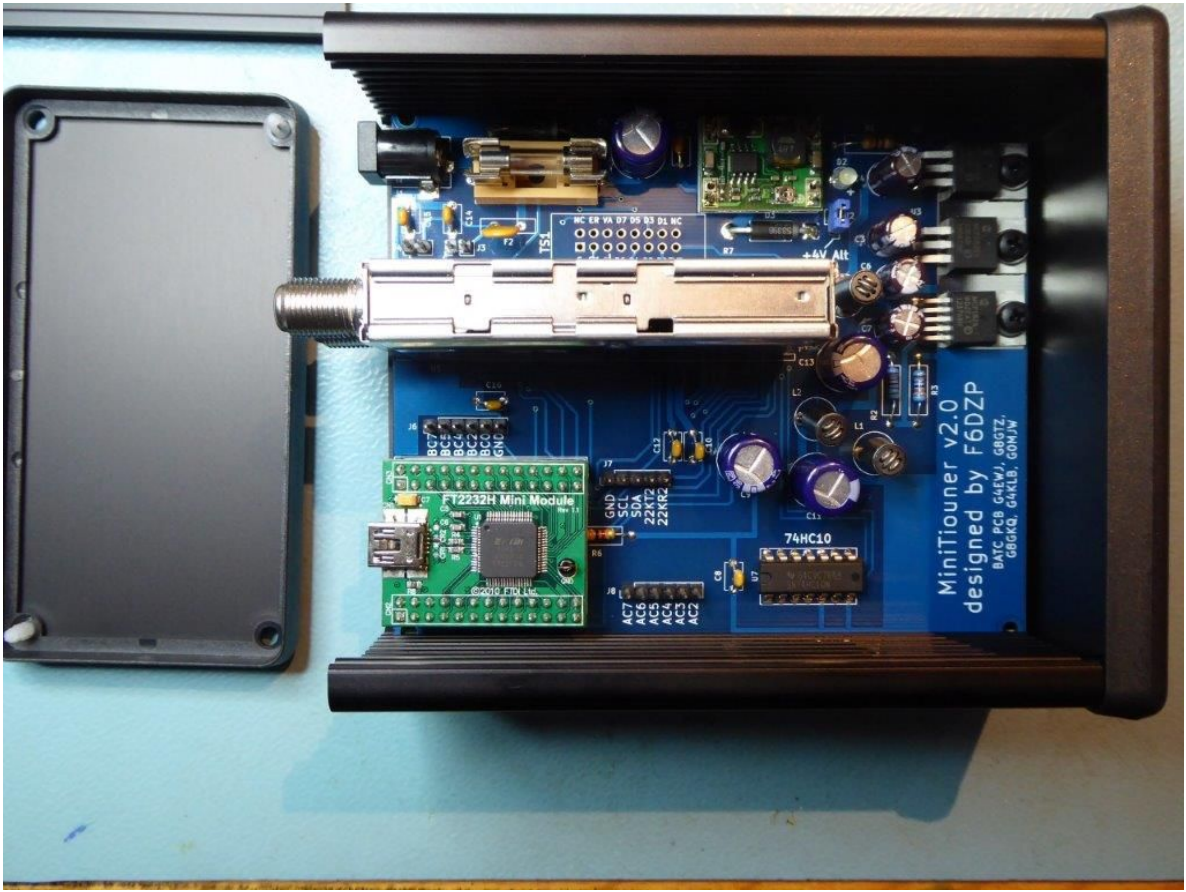
DATV - Digital Amateur Television (Octagon SF8008)



Modifiye Edilmiş LNB ile kullanılır



Minitoune

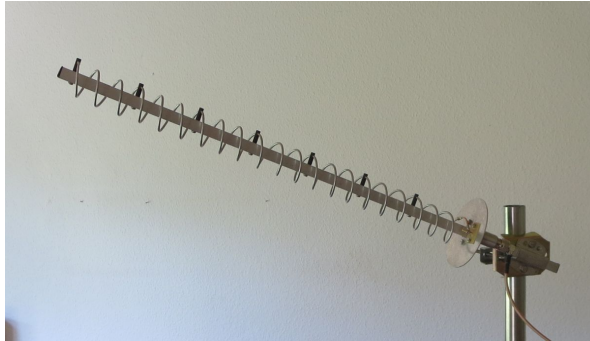
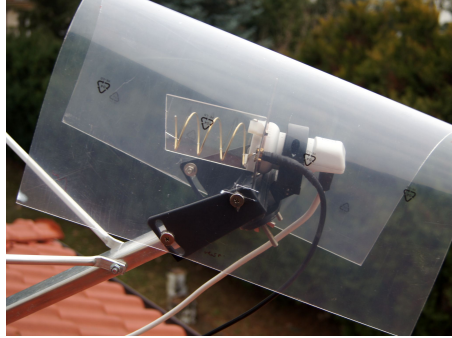


Peki Ya Gönderme !!!!!

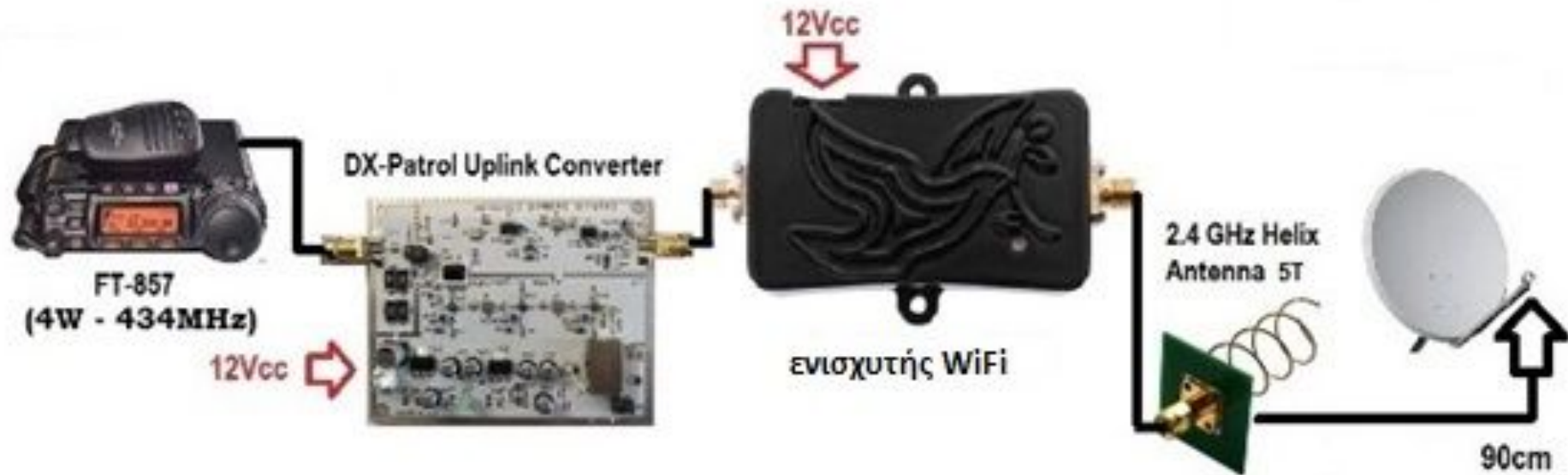
DİKKAT !!!!

**TÜRKİYE'DE 2.4GHZ BANDI AMATÖR
GÖNDERMEYE KAPALIDIR**

Çanak ve Verici Anten



Upconverter



SDR (Adalm PLuto)



SDR (Adalm PLuto)

Es'Hail QO-100 satellite setup

