OTC 10 GHz (and above)

Philip Theis K3TUF

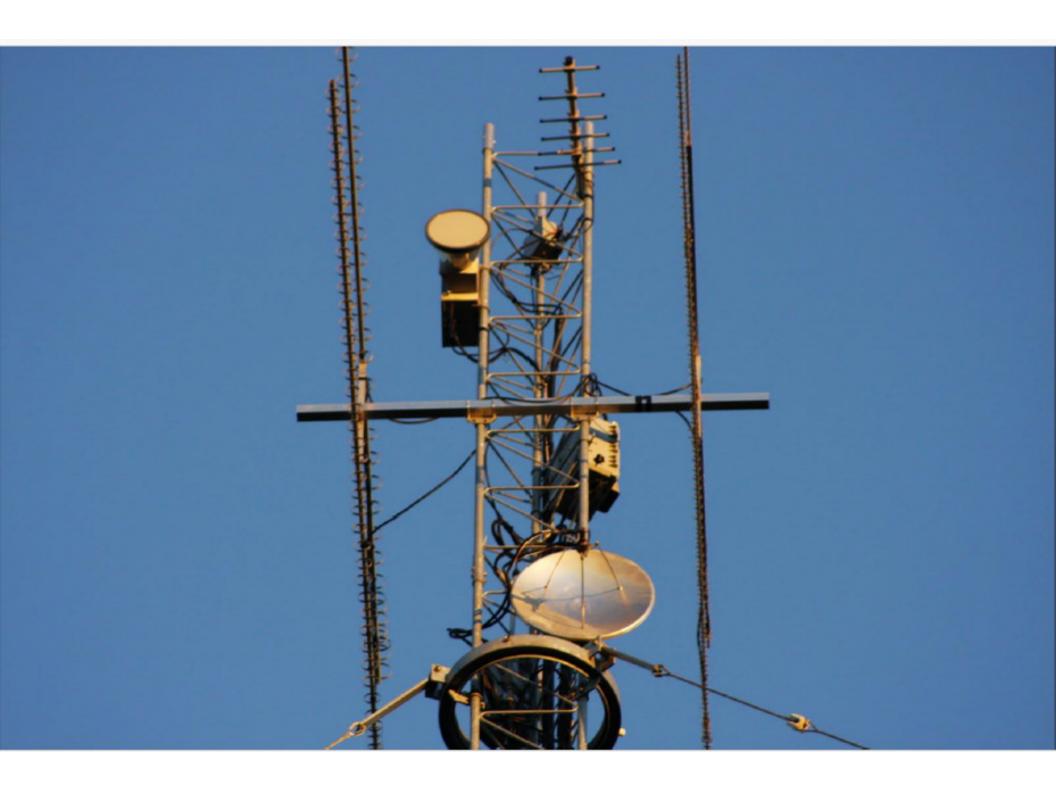
September 19, 2024

Plan for Tonight

- Take you through my journey in selecting equipment
- Show all known possible choices TODAY
- Sprinkle a little from our 10GHz operating site
- Reintroduce the W2PED Triplexer
- Show websites to purchase 10GHz gear
- Show some 24GHz







Dual Band 60cm Dish w/strut kit & feed horn, Model DSEDBDH6 Flat Washer Lock Nut Flat Washer Hex Nut Hex Nut Lock Nut 00 \odot

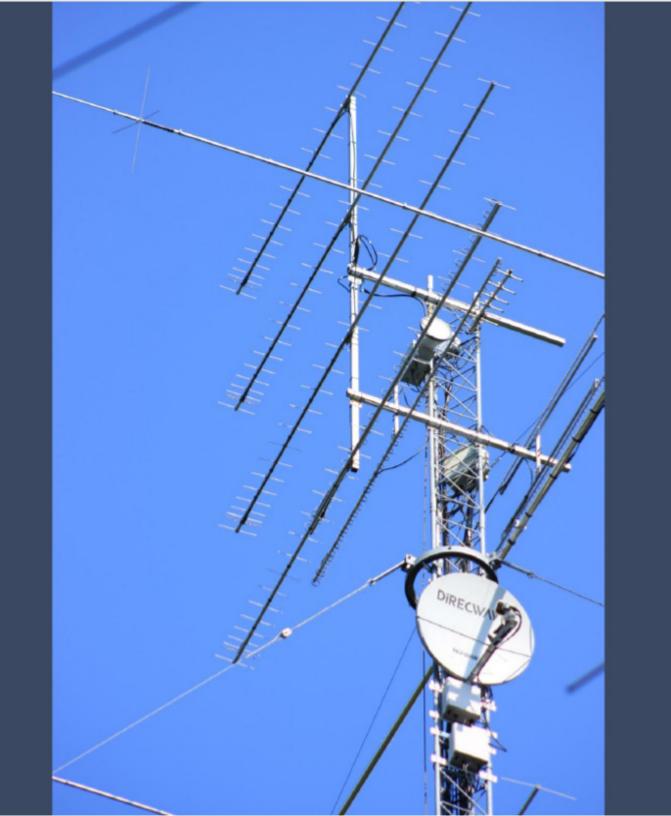








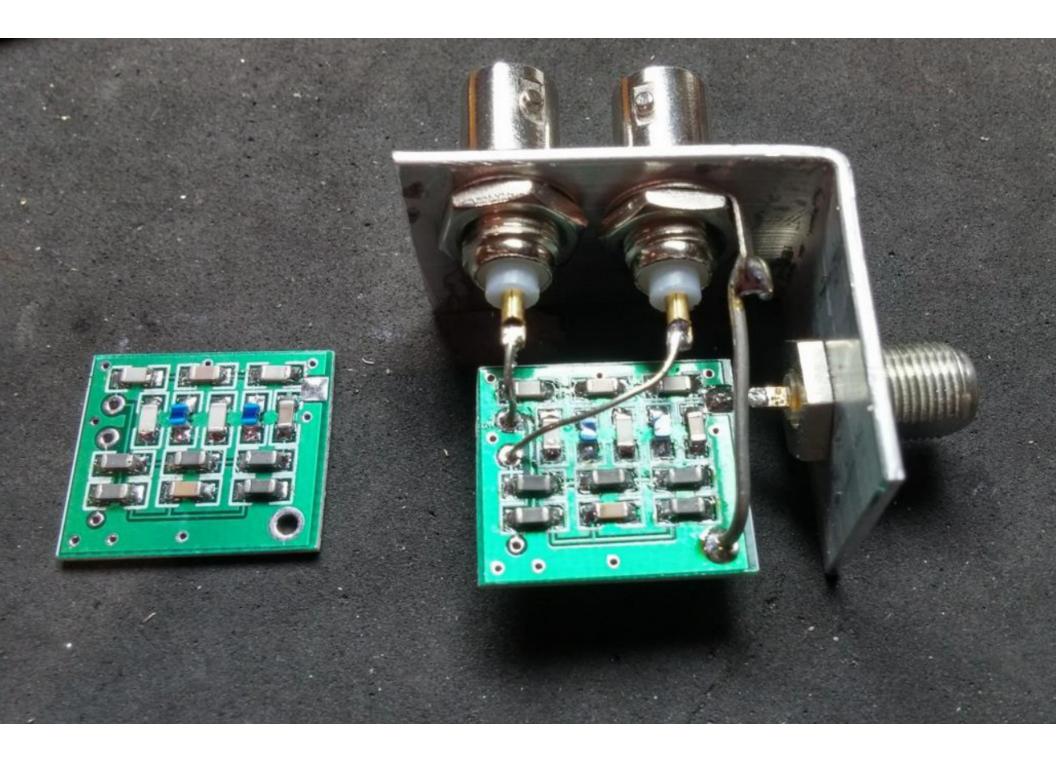


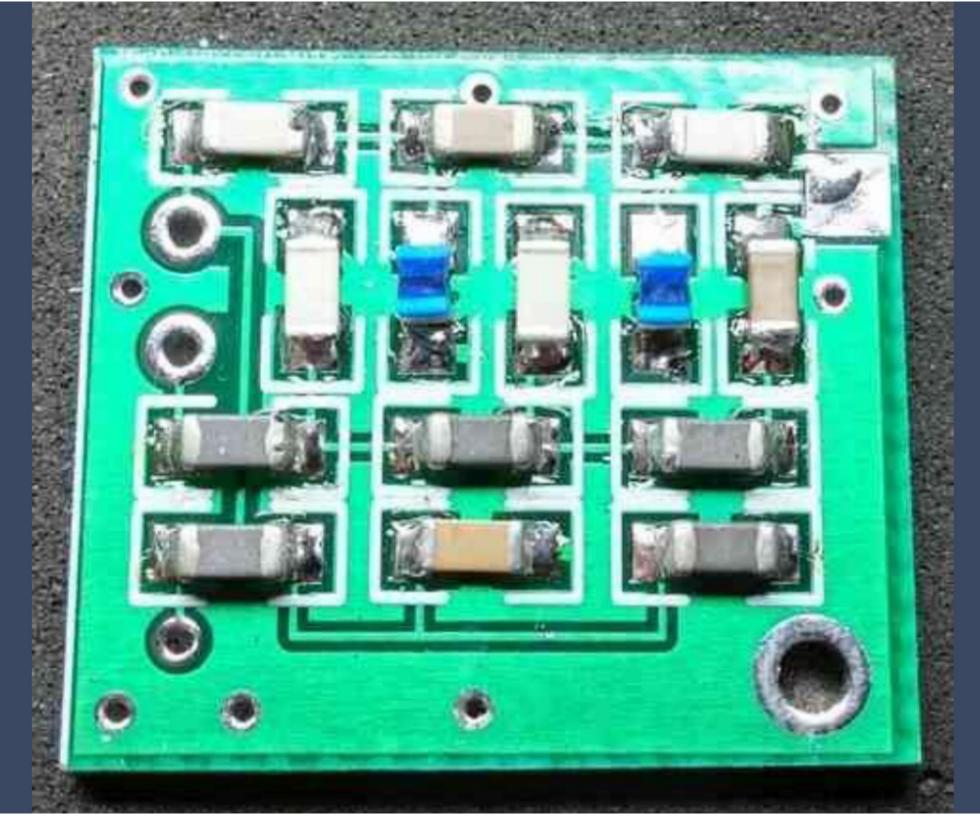




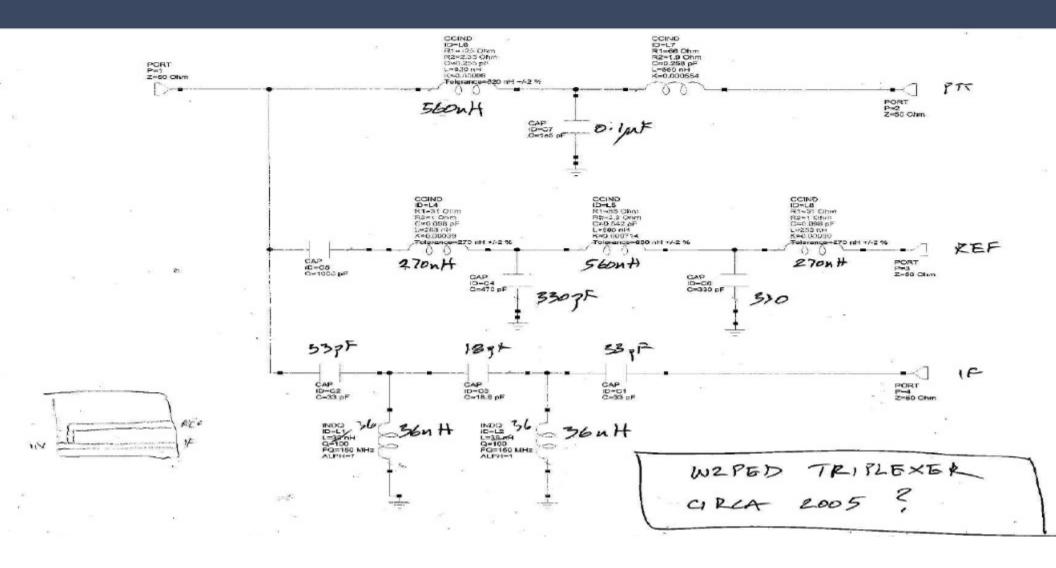
- Triplexer
- W2PED Design

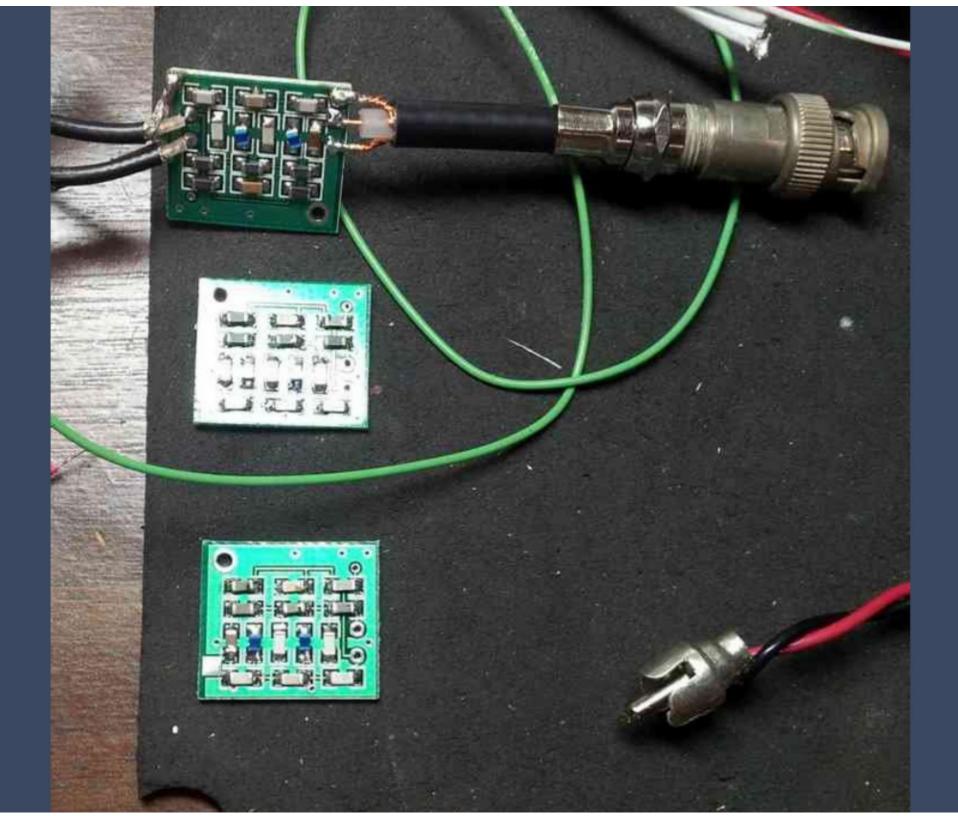
- Single Cable Shares
 - 144MHz IF
 - 10MHz Discipline
 - PTT

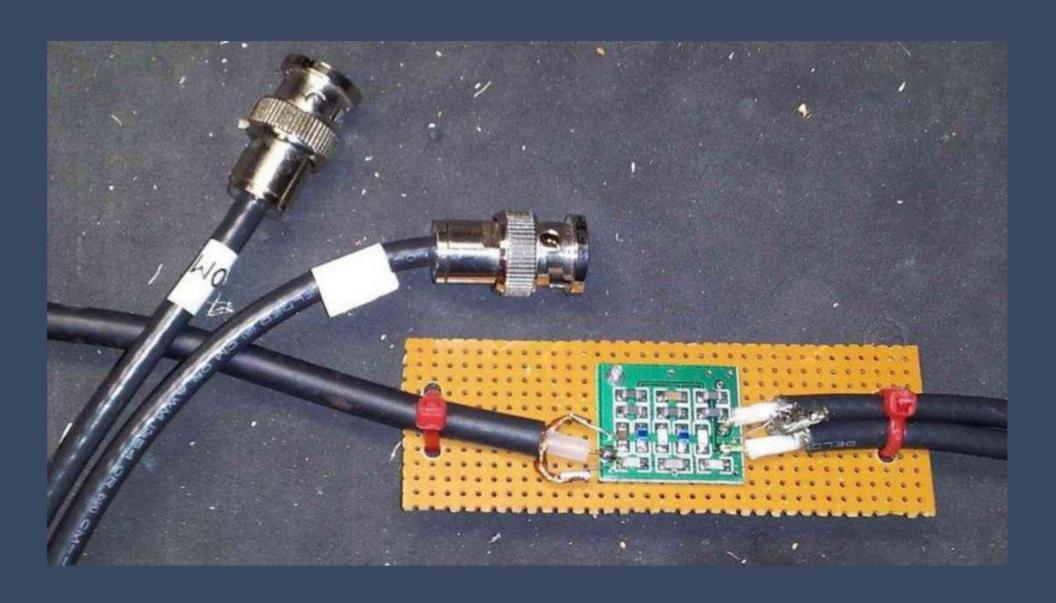




Triplexer: 144 MHz IF; 10 MHz Ref; PTT DC





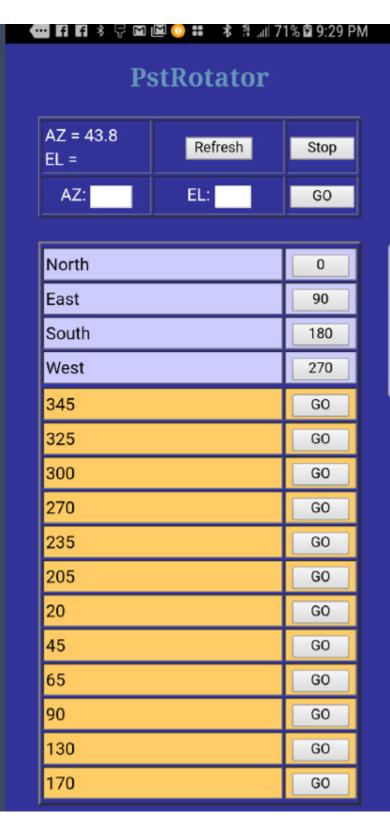




K3TUF Ethernet Relay Control

Click On Relay Buttons To Change State

GET STATUS 6M Amp ON 6M Amp is ON 6M Amp OFF Tower 110V OFF Tower 110V ON Tower 110V is ON Tower 28V ON Tower 28V is OFF Tower 28V OFF Tower 50V ON Tower 50V is OFF Tower 50V OFF EME 50V OFF EME 50V ON EME 50V is OFF Relay 6 ON Relay 6 is OFF Radio 1 OFF Radio 1 ON Radio 1 is OFF Radio 2 ON Radio 2 is OFF Radio 2 OFF Relay 9 ON Relay 9 is OFF Relay 9 OFF Bench 50V OFF Bench 50V ON Bench 50V is OFF Relay 11 OFF Relay 11 ON Relay 11 is OFF Relay 12 OFF Relay 12 ON Relay 12 is OFF Relay 13 ON Relay 13 is OFF Relay 13 OFF Relay 14 ON Relay 14 is OFF Relay 14 OFF Relay 15 OFF Relay 15 ON Relay 15 is OFF Relay 16 ON Relay 16 is OFF Relay 16 OFF









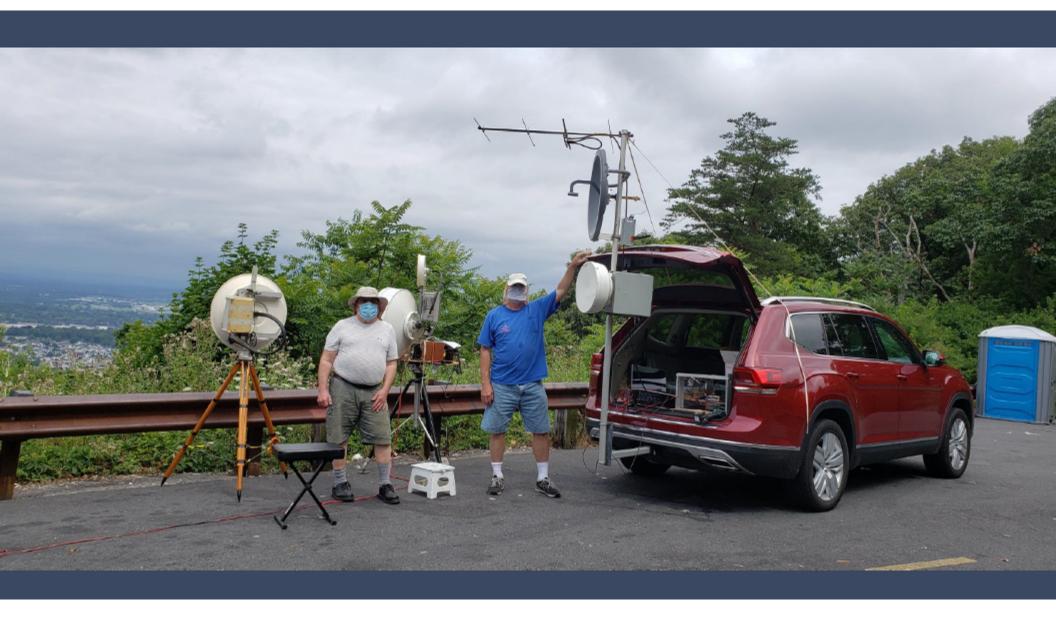


Microwave Lunch

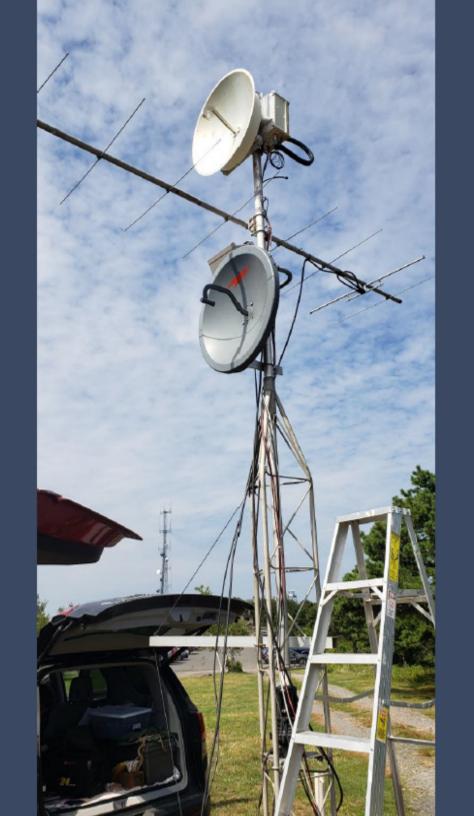
• MWL





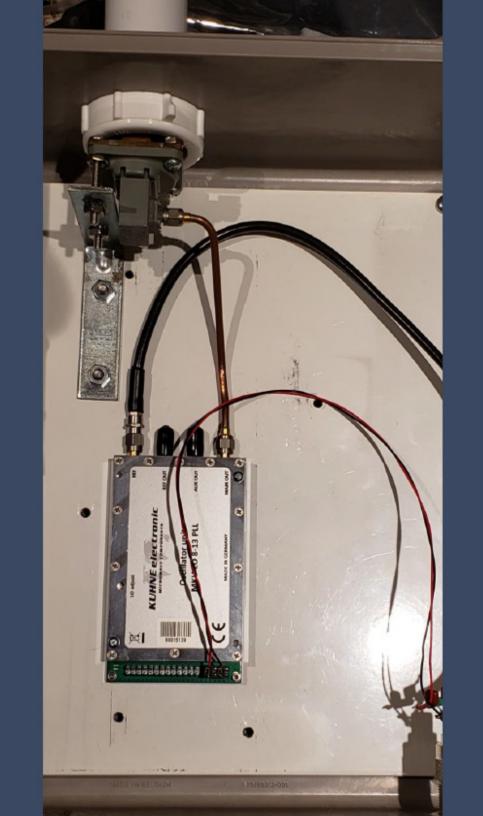






Low Power Beacon for 10GHz







Attempts at a 4 foot Dish







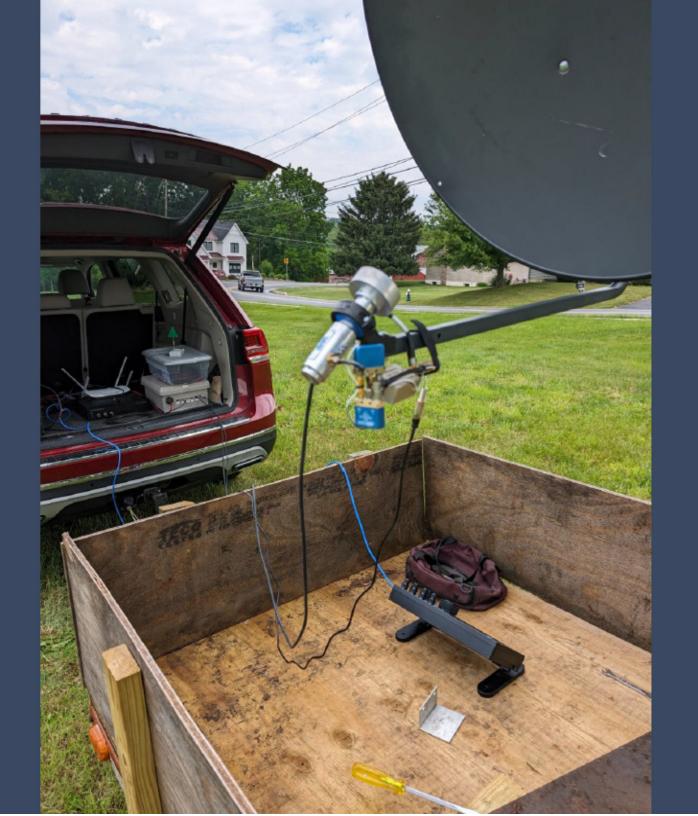
Here I decided to work off the shelf













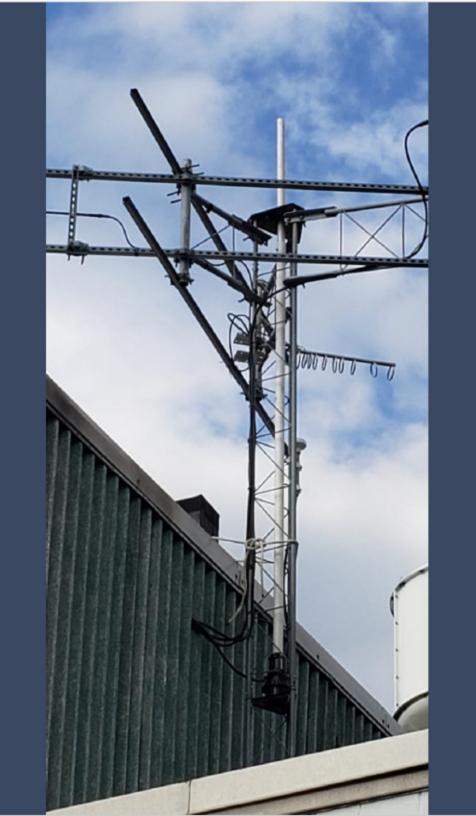
Beacon Site and 10GHz Operating

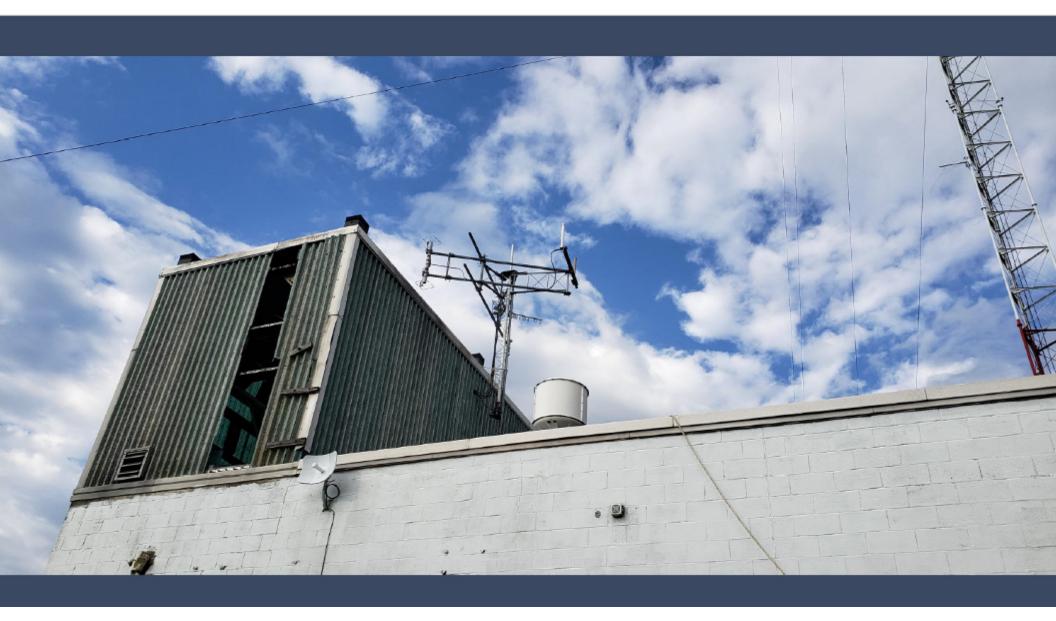
FN21be54xb















• 10GHz Off the Shelf Gear

10368-144



10368CK

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Plane For Microscop Sec. 654 Even 314 Franchiscop 5.7 (652)

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L3-2ULNACK



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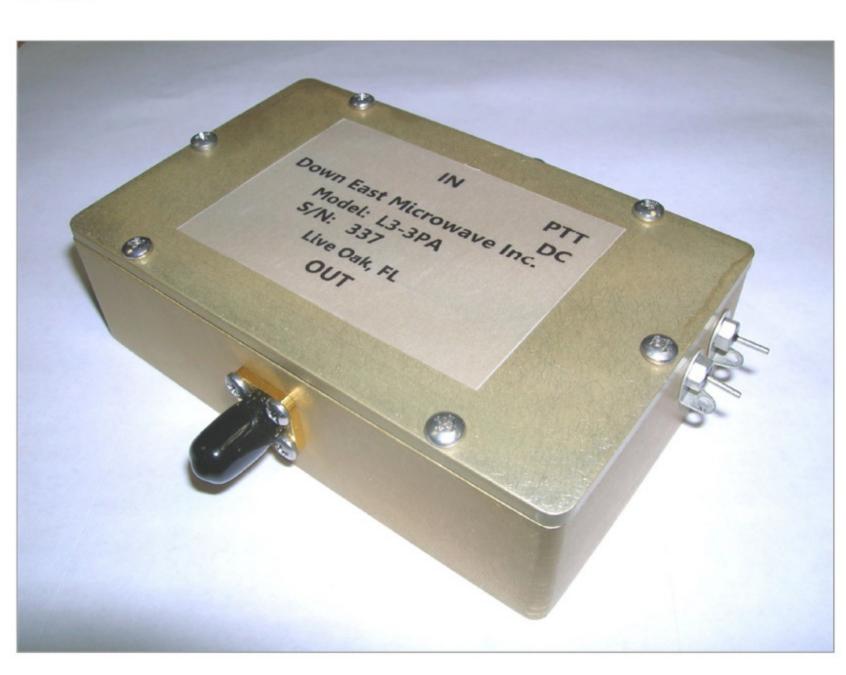
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MKU 10 G5, 3 cm Transverter

NEW - NEW - NEW

- Covering full 3 cm amateur radio band from 10000 MHz to 10500 MHz
- Flexible IF choice from 28 MHz to 440 MHz
- Very high spurious and harmonic rejection even at 28 MHz IF
- Low power IF mode
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MKU PA 3CM-8W A, GaAs-Fet Power Amplifier

10300 ... 10400 MHz • 8 W Power Amplifier for the Amateur Radio Band 3 cm

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incl. 19% Vat. plus shipping

Lead time on request





MKU LNA 101 A2, Low Noise Amplifier

10368 MHz

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incl. 19% Vat. plus shipping

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Technical specifications

Features

Important notes

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Accessories



MKU 24 G3 USA, Transverter

NEW - NEW - NEW - NEW

24192 ... 24194 MHz

The new design of our transverter for 24 GHz features better performance and many new functions.

Built-in 2 W Power Amplifier

net: 878,15 €

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incl. 19% Vat. plus shipping

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MKU LO 8-13 PLL-2, Oscillator

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- Frequency freely configurable
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- Intuitive operation
- High Resolution
- Synchronisable also with other modules
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LENS HORN ANTENNAS SERIES 810/820/880

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Features

- 4 140 GHz
- High Radiation efficiency (20% smaller aperture than equivalent parabolic antenna)
- · Superior sidelobe and crosspolar performance
- · Linear and circular feed
- Weatherproofing on Series 820 / 880
- · Low wind loading



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About ~

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From the company's inception in 1956, Flann has and continues to be a family run business. We employ around 65 highly skilled engineers and professionals who have supported us as the company's global reputation for quality, reliability and performance has grown.

Located in Bodmin, Cornwall, our purpose-built factory and business premises occupy an area of 1800m2 situated in attractive grounds with views over the rolling Cornish countryside.

Since 1993 Flann has held a quality system status with the accreditation ISO9001:2015 which we continue to comply with

Flann's on-going policy of maintaining the highest standards ensures that the Company's global reputation for quality, reliability and performance will continue into the future.

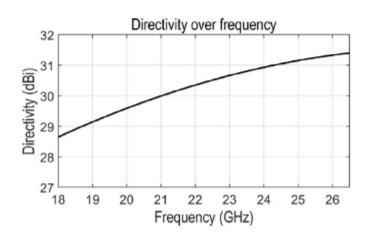
Business Highlights

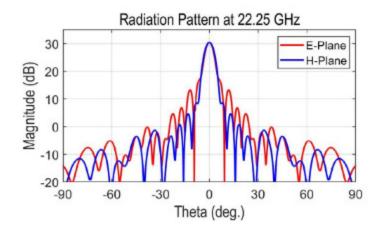
- · Export sales are in excess of 80% of total production.
- · Technical sales and service support operating from offices in the UK.
- Global customer base including many leading companies in Communications, Research & Development, and Aerospace & Defence
- · Worldwide distribution network dedicated to the supply and service of our products in a global market.
- · Dynamic R&D initiative developing the next generation of passive microwave components.
- Project management, consultancy and customised product manufacture.

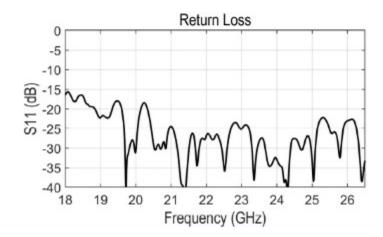
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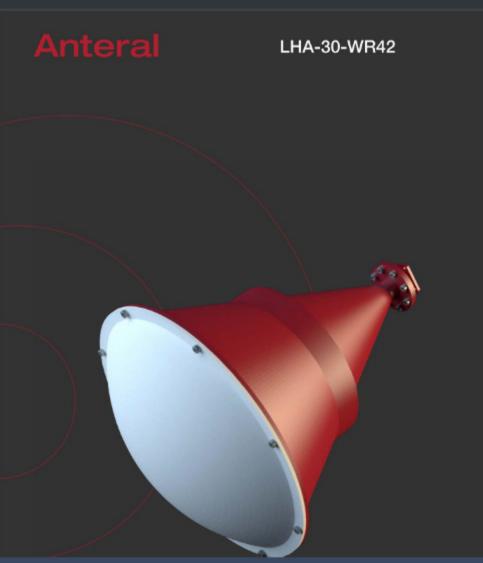
ELECTRICAL SPECIFICATIONS

Parameter	Typical value	
Frequency	18 -26.5 GHz	
Gain	30 dBi	
3 dB Beamwidth, E-plane	4.8 deg	
3 dB Beamwidth, H-plane	5.5 deg	
Sidelobe, E-plane	-18 dB	
Sidelobe, H-plane	-18 dB	
S11	-18 dB	









www.anteral.com

contact@anteral.com +34 948 488458

K-Band Lens Horn Antenna

18 to 26.5 GHz, WR42, 30 dBi Gain

DESCRIPTION

Anteral's Lens Horn Antennas are conical horn antennas with a **plano-convex** highdensity polyethylene (HDPE) lens added in the aperture, in order to apply phase correction and achieve high gain, low VSWR and low side-lobes, with minimum size.

The LHA-30-WR42 model operates at the K-band between 18 and 26.5 GHz with 30 dBi nominal mid-band gain and a typical VSWR of 1.25.

APPLICATIONS

Lens Horn Antennas are especially useful when high gain is required with the minimum size. Therefore, these antennas are widely used in radar applications, communication links and meteorological systems among others.

Anteral also offers their Focusing Lens Horn Antennas with double-convex lenses to exhibit very well define focusing beams with short focal distances which makes them optimal for testing and material characterization.



Plane-wave











New

144, 430/440, 1200, 2400, 5600 MHz +10 GHz ALL MODE TRANSCEIVER

IC-905

Aim Higher! VHF, UHF, and Explore the World of Microwave

Aim higher and enter the world of SHF. The IC-905 is an industry-first all-mode transceiver with 144/440/1200/2400/5600 MHz coverage. Add 10 GHz with the optional CX-10G transverter.





⊕ ZOOM











transceiver with 144/440/1200/2400/5600 MHz coverage. Add 10 GHz with the

optional CX-10G transverter.

















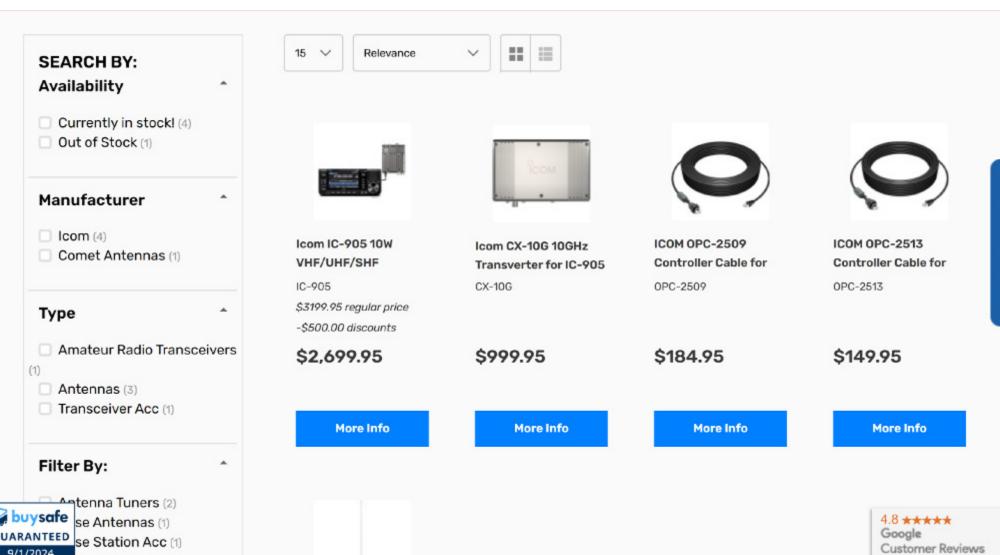
Optional 10 GHz Transverter, CX-10G

The CX-10G transverter provides 10 GHz operation by converting to a 2400 MHz IF signal. 10 GHz operation becomes more approachable and easier to work. The CX-10G is in bypass mode when the use of the 2400 MHz band.

CX-10G >



CX-10G



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GEOSATPRO - 90CM / 36IN OFFSET SATELLITE DISH

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Quantity:



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IOJXX 10 GHz Feed, offset/prime focus

As low as: €120.00

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Parabolic antenna, type

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Prime Focus

Quantity:

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