

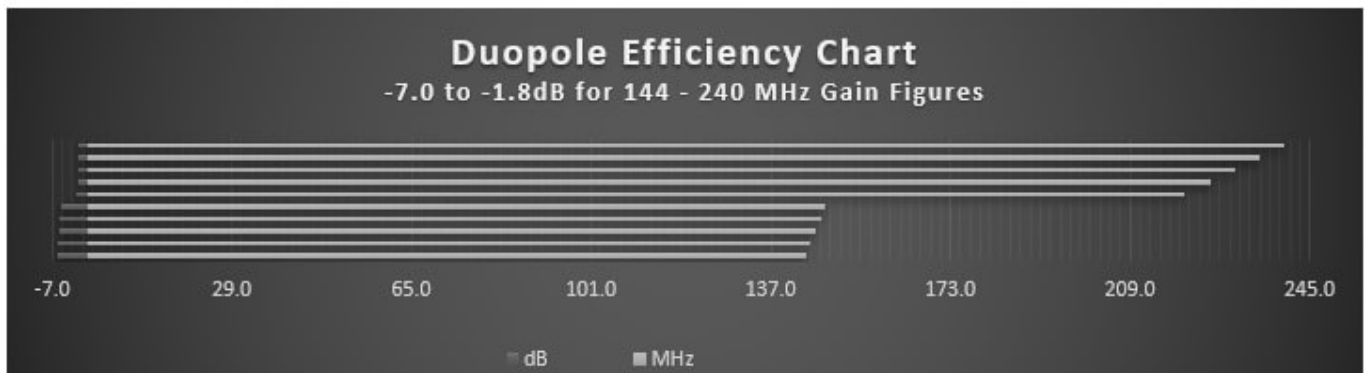
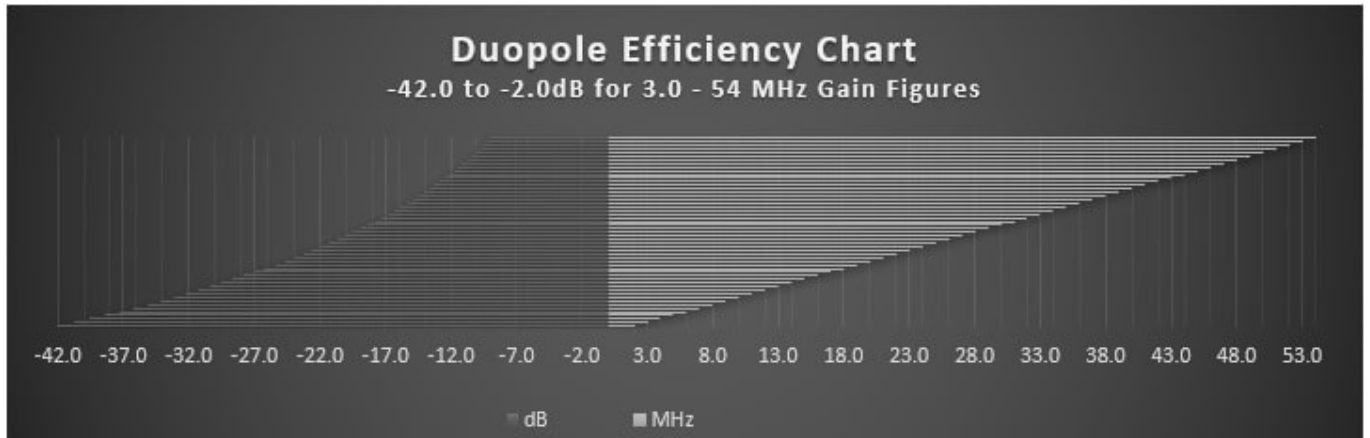
This Digital VHF HF Military Vertical Dipole Antenna that provides 0-2500km of Digital mode coverage that is perfect for SCADA and Stealthy Covert deployments.

SPECIFICATIONS

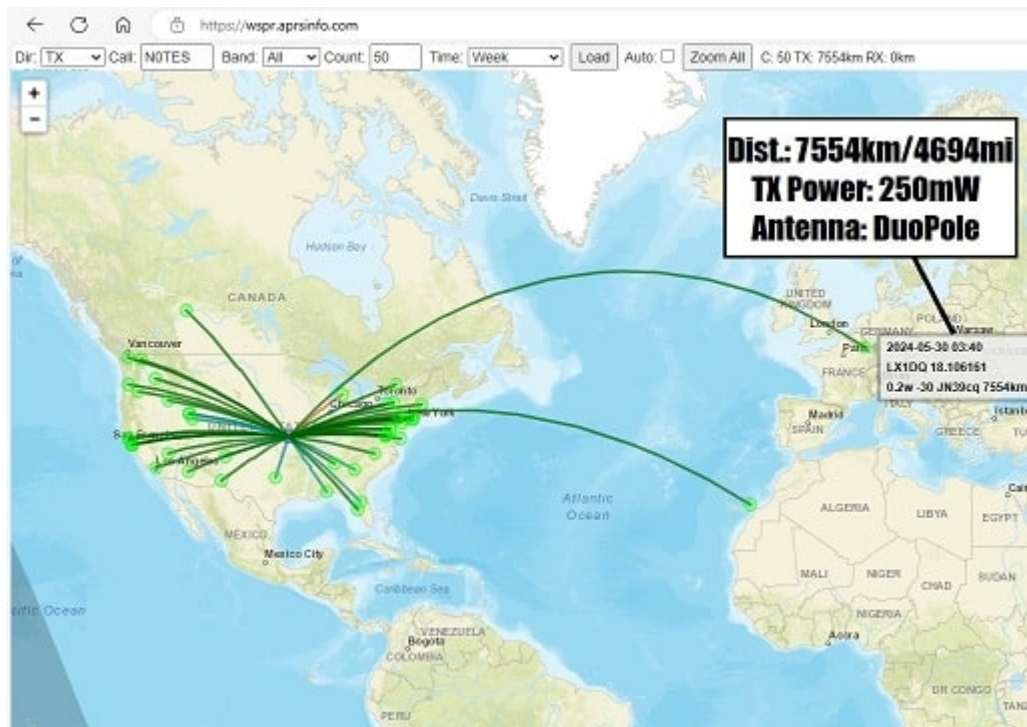
- Coverage: 1.8-7MHz, 7MHz-30MHz, 144-148MHz, and 220-240MHz TX/RX
- Missions that require digital HF communications using Ground-wave and/or Skywave signal patterns.
 - Digital nation-wide 'skywave coverage' using HF.
 - All mode 'ground-wave coverage' in a radius of 60-miles (dependent upon height) using VHF & HF.
- Useful when an isolated solution is required that requires no counterpoise.
- Deployable with digital quantum communications and/or spread-spectrum computing and RF equipment.
 - For equipment that uses singular or simultaneous frequencies.
- Compact & light at 36 inches x 4 inches x 1.5 inches in size and weighs 22 ounces

Power Rating: 5W minimum digital input signal required with a maximum input power rating of 30W for Digital Modes. Including but not limited to the MIL-STD-188 M110a digital communications mode that is rated at 25 watts continuous with bursts of 100 watts digital for up to 1 minute using the MIL-STD Data Modem Terminal (MS-DMT) and Automated Message Terminal (AMT) software applications.

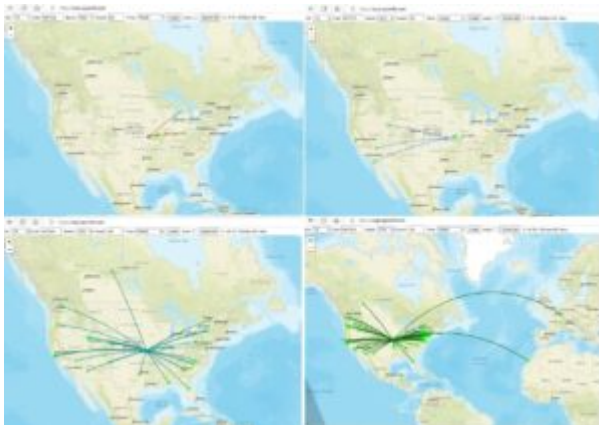
Calculated Gain Figures



250MW WSPR TX Results (7-30MHz)



Break-out of TX Results (Click Map to Enlarge)



USAGE SCENARIOS

Read About [Using HF Frequencies to Monitor Remote Pipelines](#)

Where secrecy is paramount, digital communications through unseen methods plays a crucial role. Clandestine usage scenarios that are enabled by this Military Vertical Dipole Antenna known as the DuoPole include:

1. Clandestine Communications in Cyber-Denied Environments:

- Context: In an era where internet-based communications are vulnerable to surveillance and attacks, intelligence operatives seek alternative methods.
- Scenario: Imagine a situation where an operative needs to communicate without exposing themselves to internet-based surveillance.
- Solution:
 - Physical Separation: Platforms physically separated from the internet can be used. These platforms are not susceptible to internet-based surveillance or attacks.
 - Radio Technology: Combine modern computer-based software with radio technology.
- Importance: Counterintelligence and law enforcement must adapt to these evolving communication methods.
- Countermeasures: Detect radio-based clandestine communications and secure evidence.

2. Operational Scenarios where concealment and minimizing visibility are critical:

- Example: Monitoring a nearby building while parked outside.
 - Setup: Transmitter, receiver, and antennas positioned out of sight from windows.
- Between Floors in an Office Building:
 - Example: Operating from the third floor to the first floor.
 - Setup: Transmitter, receiver, and antennas positioned out of sight carried out of site under clothing.
 - Out in the Open:
 - Example: Providing regional communications support while deployed in the field.
 - Setup: Transmitter, receiver, and antennas positioned out of sight inside a backpack.

3. Monitoring remote pipelines:

- [Read more about Using HF Frequencies to Monitor Remote Pipelines](#)

SUMMARY

Clandestine antennas for digital communications are designed to operate covertly, avoiding detection by adversaries. Their success lies in striking a balance between effective communication and maintaining secrecy with a right sized antenna.

Digital Mode VHF HF Vertical

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5.0



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5★

100

100%

4★

0%

3★

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Customer photos and videos



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Jerome Boasner

June 1, 2024

This system checked all of the boxes for a digital EmComm antenna. The rugged structure deployed in 60 seconds and has already withstood 80+MPH winds. Performance has been nation-wide based upon imperical testing using the ZachTech WSPR hardware.



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