

ET Industries

Introduction Brief



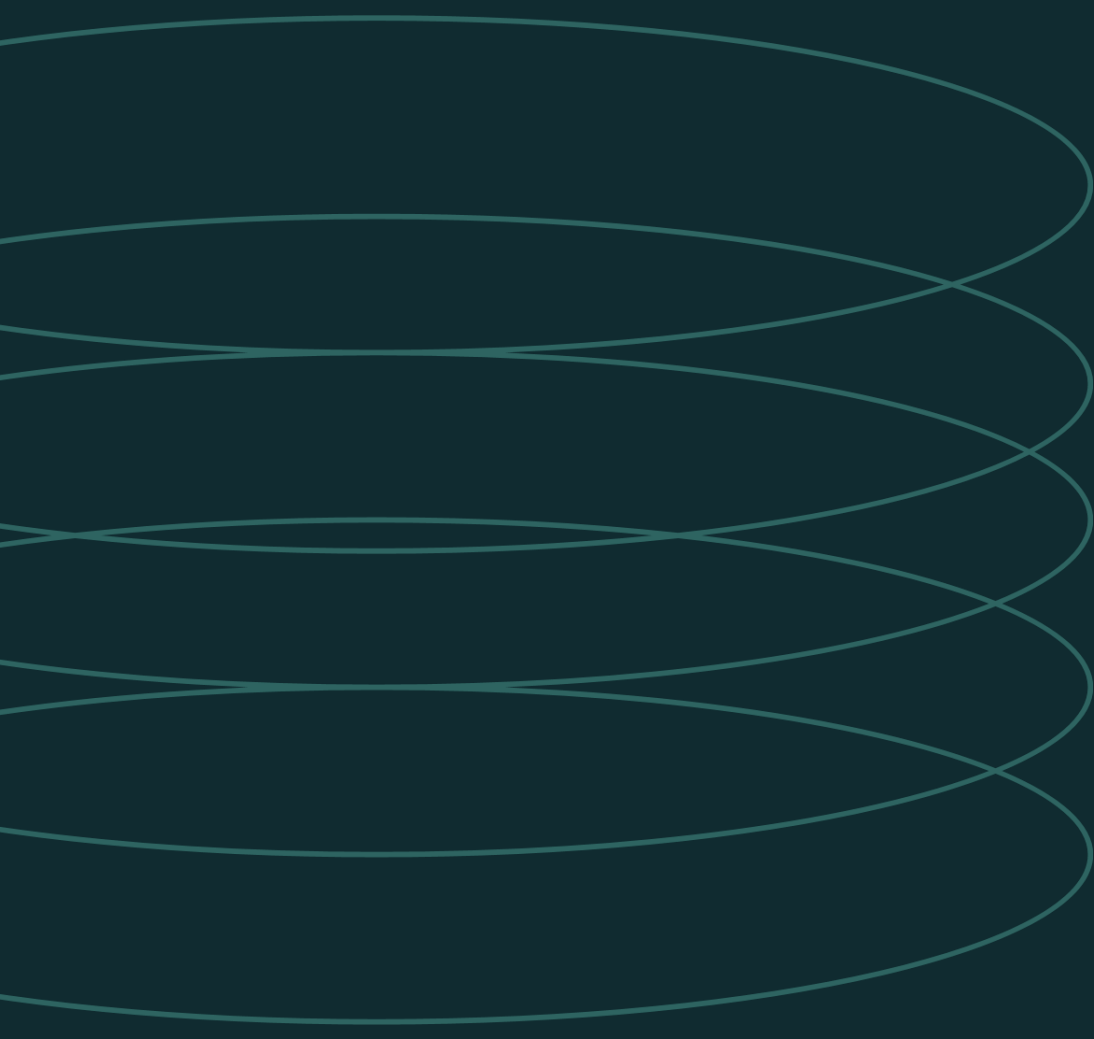
About ETI

- Founded in 1996
- AS9100D Aerospace Standard
- ISO 9001:2015
- Telecommunications
- Military & Defense
- Aerospace



The background is a dark blue gradient with abstract, wavy, light blue lines flowing across it. There are two horizontal white lines near the top left. A large, dark red, semi-transparent geometric shape, resembling a parallelogram or a tilted rectangle, is positioned behind the text. Below this, there is a solid dark blue trapezoidal shape. At the bottom, a thin red horizontal line spans the width of the image.

Telecommunications



5G and 6G Telecommunications

Beamforming

- **Multi-Beam (Simultaneous Beamforming)**

- Robust
- No Power required
- No Software
- Minimal Maintenance

- **Single Scanning Beam (Sequential Beamforming)**

- Complicated
- Additional power required
- Software required

Simultaneous Beamforming Advantages

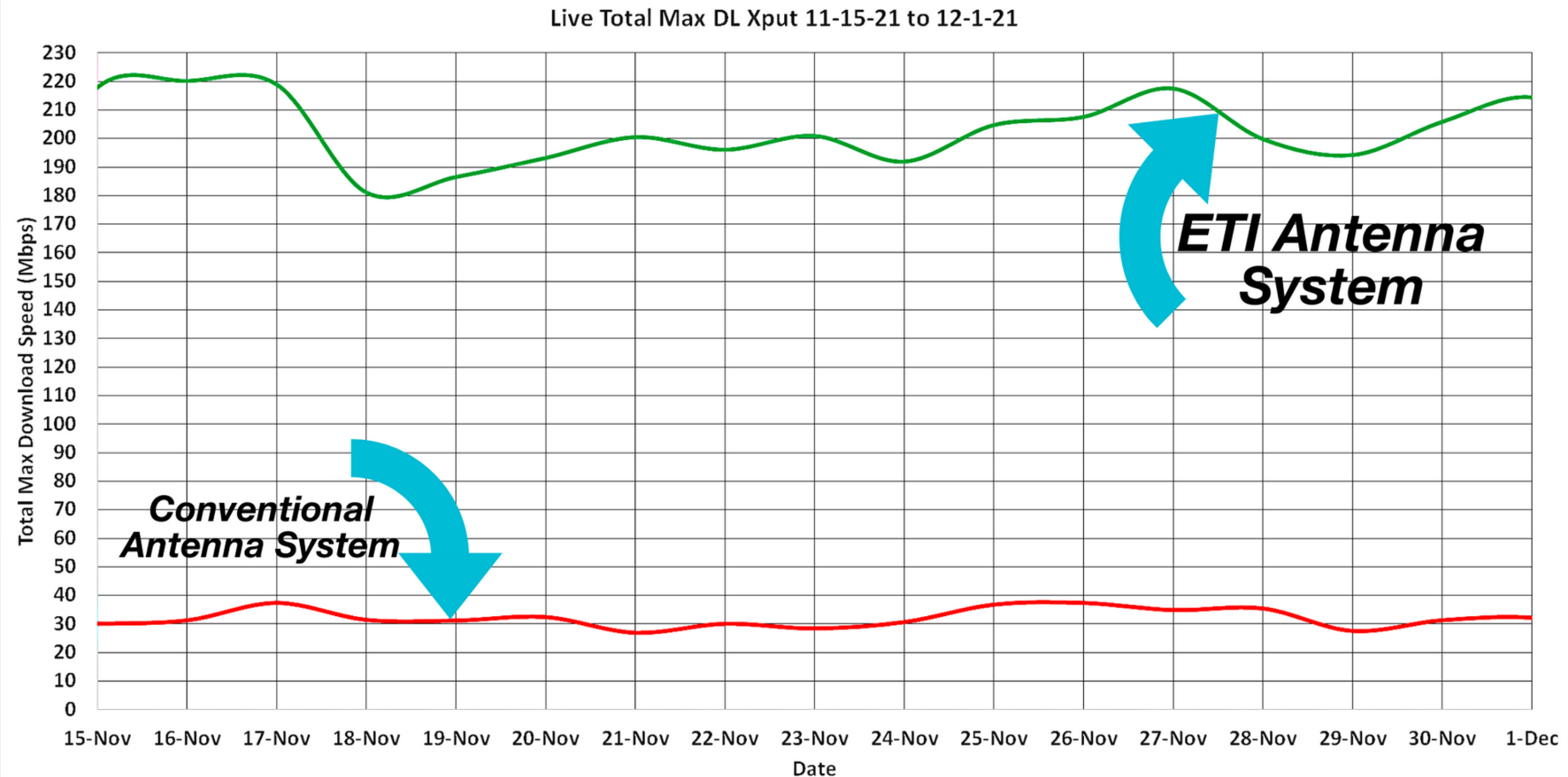
- Robust
- No software required
- No additional power required
- Any base station can be used



Multi-Beam Antenna System

- **Cost-efficient**
- **Up to 32 beams per antenna**
- **Spectrum multiplication**
- **Frequency reuse**
- **No additional spectrum required**

4-Beam Antenna System Live Results



Test Report Australia Trial

- 10 times increase in quality
- Reduction of Noise and Interference
- Test distance of 20km

12-Beam Antenna System



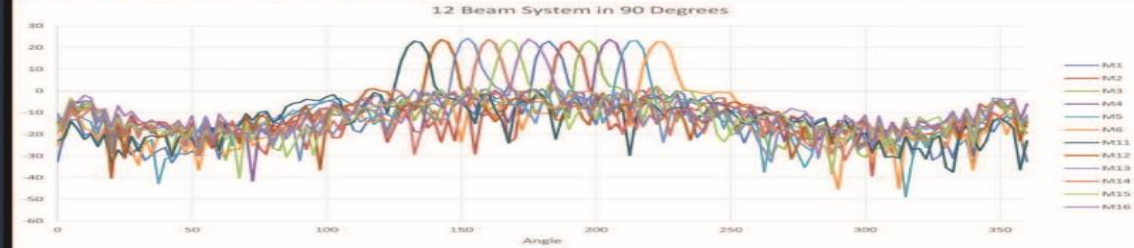
12-BEAM ANTENNA SYSTEM

MODEL NO. ET3237-12

ET Industries presents telecom's first 12-beam phased array antenna system. The system achieves frequency repetition by a factor of 12 per 90 degrees (each beam the same spectrum) of coverage providing 48 beams in 360°. The optimized radiation patterns maximize data rates in the CBRS band.

ANTENNA PATTERNS (AS TESTED)

12 Beam System in 90 Degrees



ELECTRICAL SPECIFICATIONS

Frequency Range	3200-3700 MHz
Gain	25 dB
Horizontal Beamwidth	90° (12 beams each 7.5°)
Impedance	50 Ohms
Sidelobe Level Max	-22 dB
Front-to-back Ratio	-30 dB
Max Input Power*	50 W
VSWR	<2:1
Polarization	Vertical and Horizontal
Connector	N-type Female

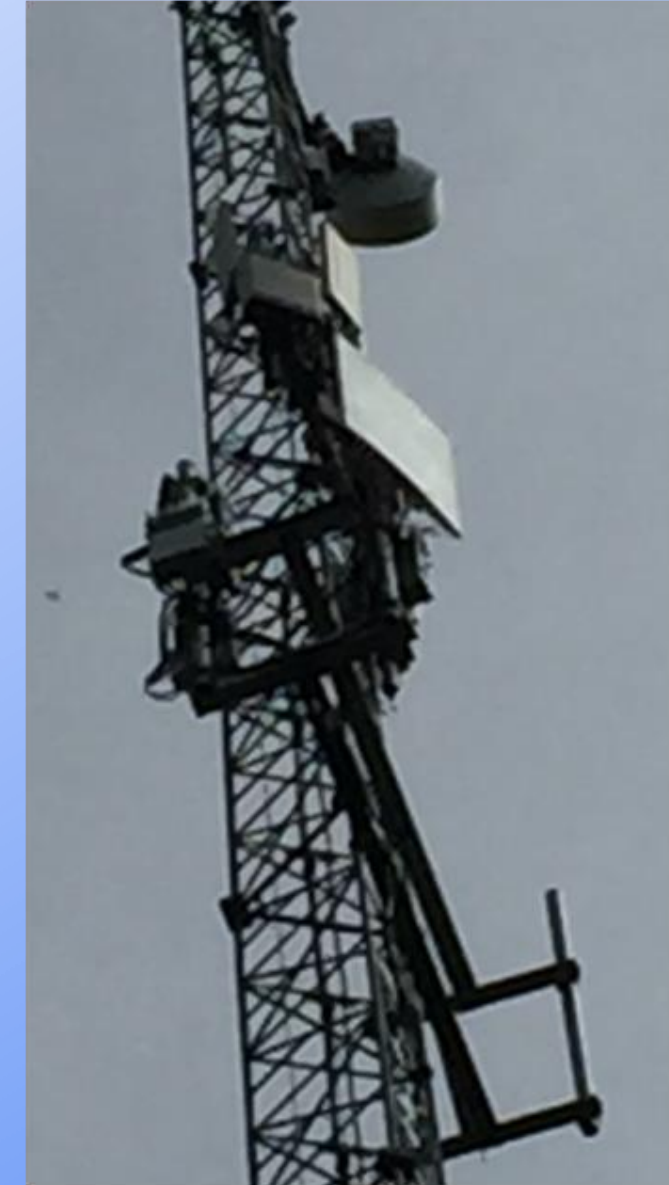
*Other powers can be provided

MECHANICAL SPECIFICATIONS

Weight	150 lbs.
Dimensions	57.4" (W) x 40.8" (L) x 4.3" (D)
Radome Material	UV Resistant ABS
Operating Temperature	-40°C to 60°C
Mounting	Brackets conforming to site location

50 Intervale Road, Boonton, NJ 07005 • Tel: 973-394-1719 • www.etiworld.com

ETI Deployments Worldwide



ETI Deployments Worldwide



Sudan



Niger



Indonesia



Australia



USA



Kurdistan



Mexico



Canada



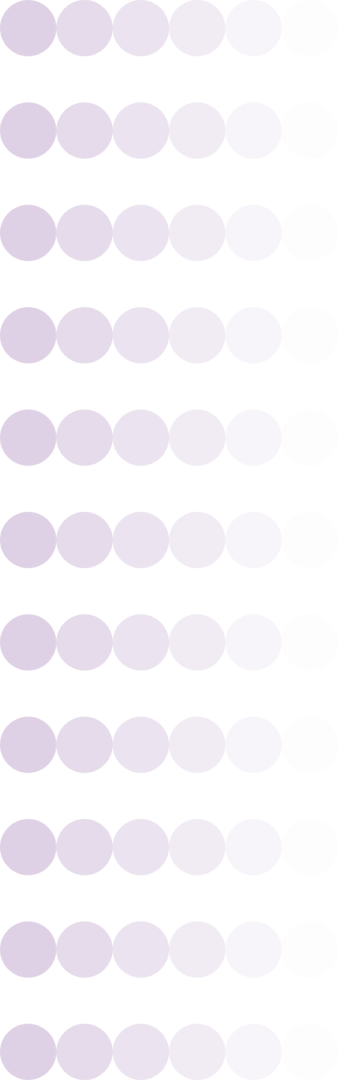
New Zealand



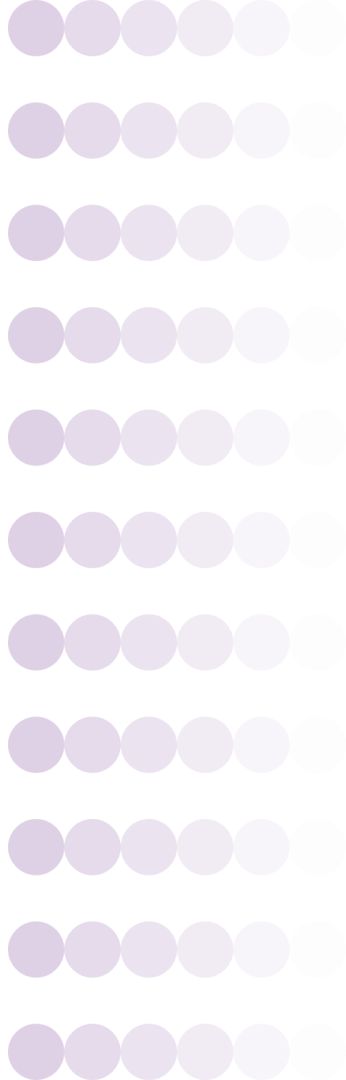
Kuwait



Haiti

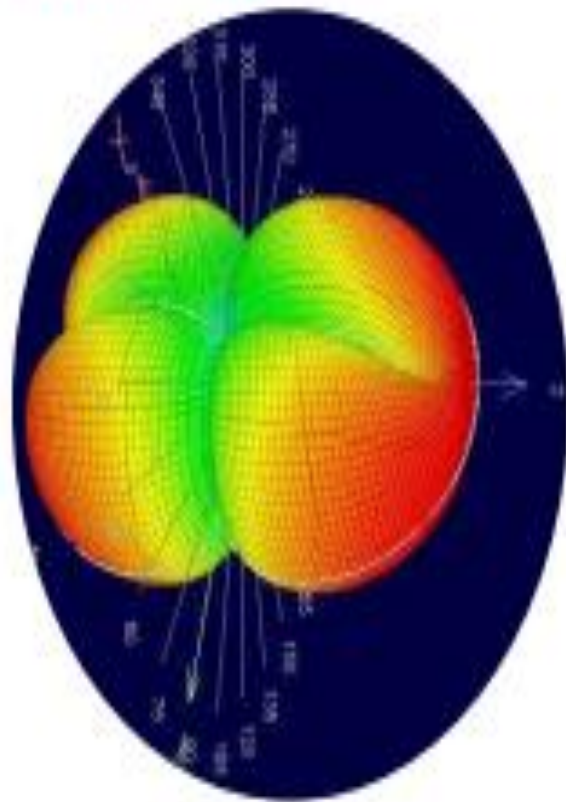


Omni DAS Antennas

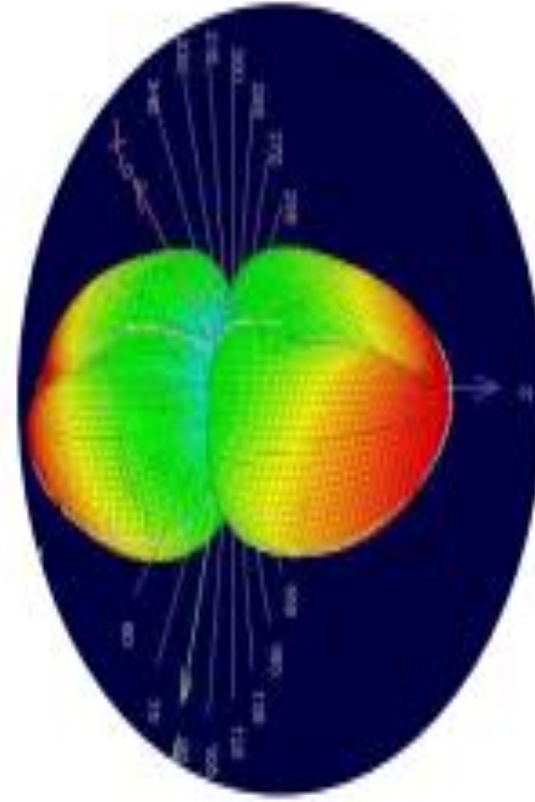
- High Gain
 - Compact
 - Superior Coverage
- 

Omni DAS Antenna Actual Measurements

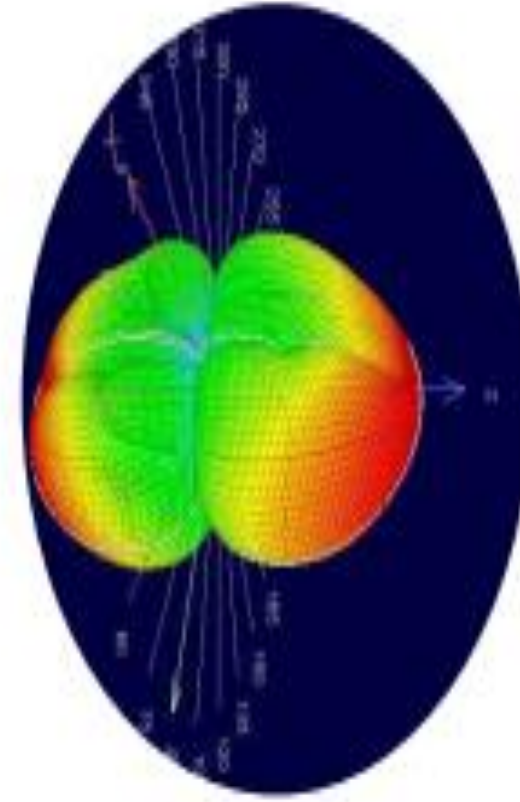
ANTENNA PATTERNS



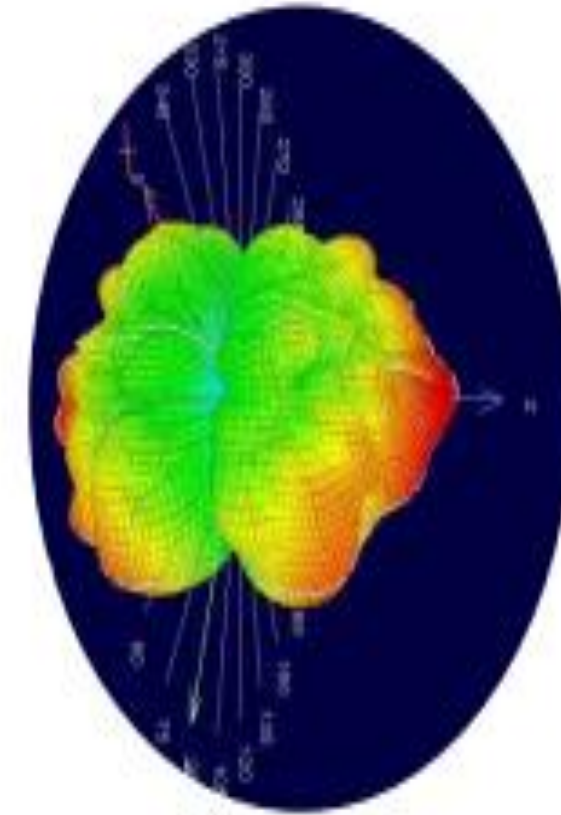
7 dBi @ 1800 MHz



7.5 dBi @ 2400 MHz



8.5 dBi @ 2600 MHz

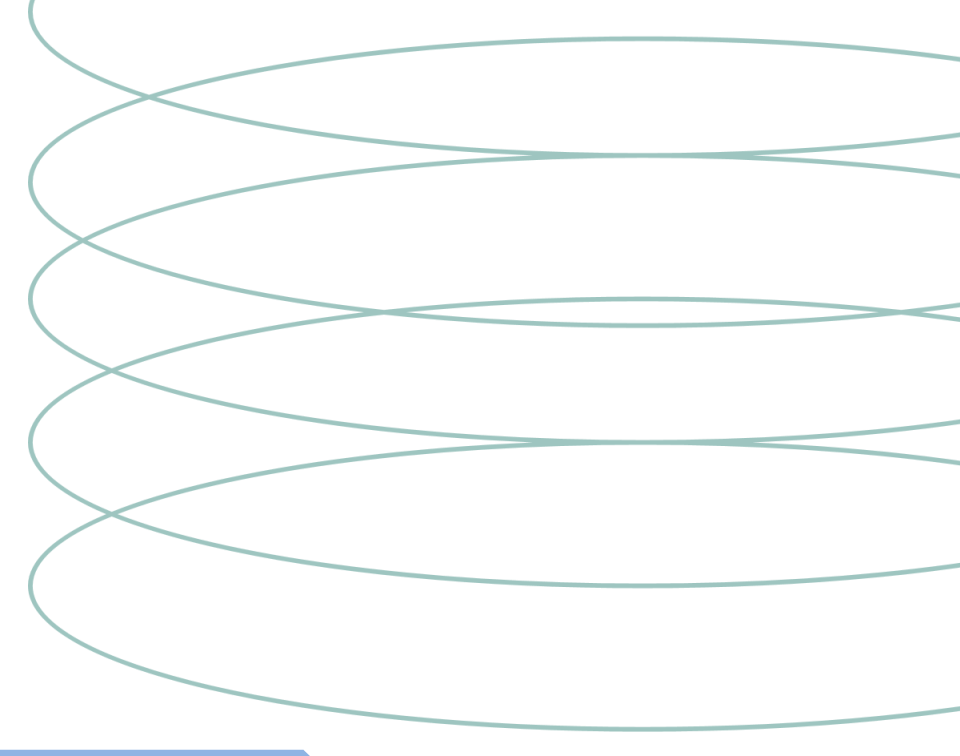


10.5 dBi @ 5800 MHz



Defense & Aerospace

Defense & Aerospace



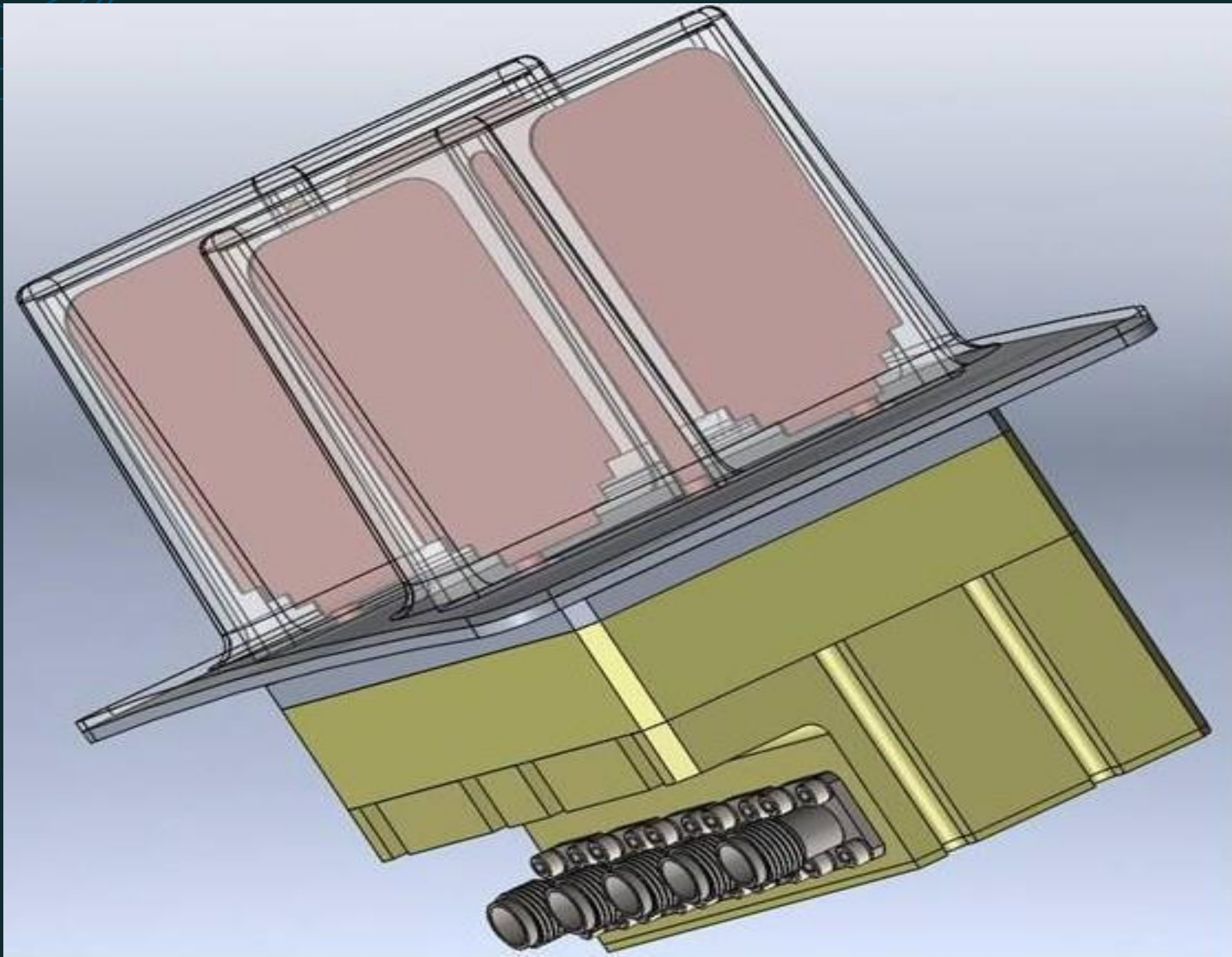
- **Electronic Warfare Systems**

- Customers include:
Boeing, Northrup Grumman,
Lockheed Martin, Raytheon,
Harris, L3 Technologies,
MITRE, BAE, Cobham

ETI supports:

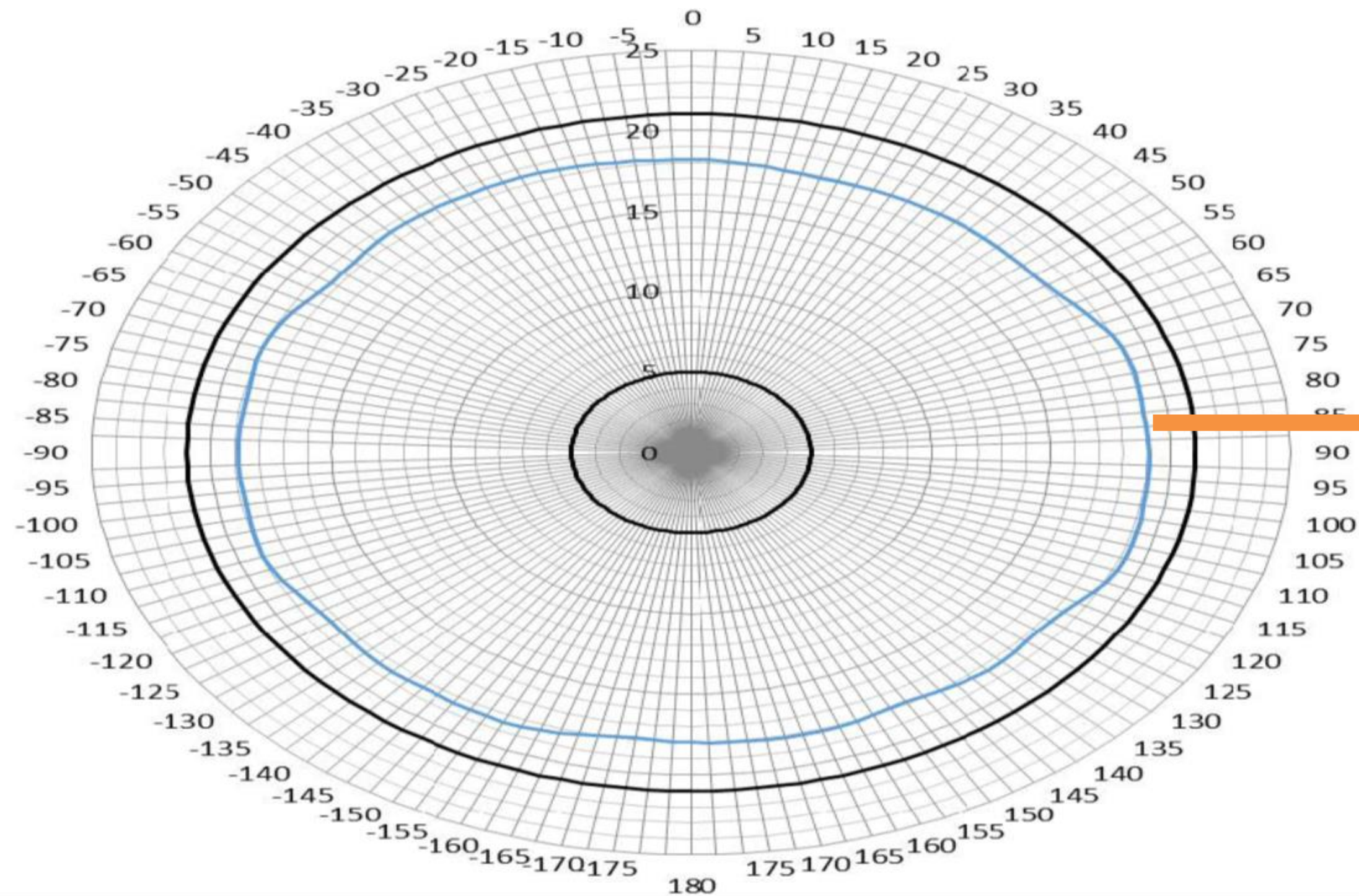
- Army, Navy, Marines, Air Force, Coast Guard, NASA, Indian Space Agency, NATO

Direction Finding Antenna System



- Used on Supersonic Aircrafts
- USA and NATO customers
- Extreme Angle of Arrival accuracy

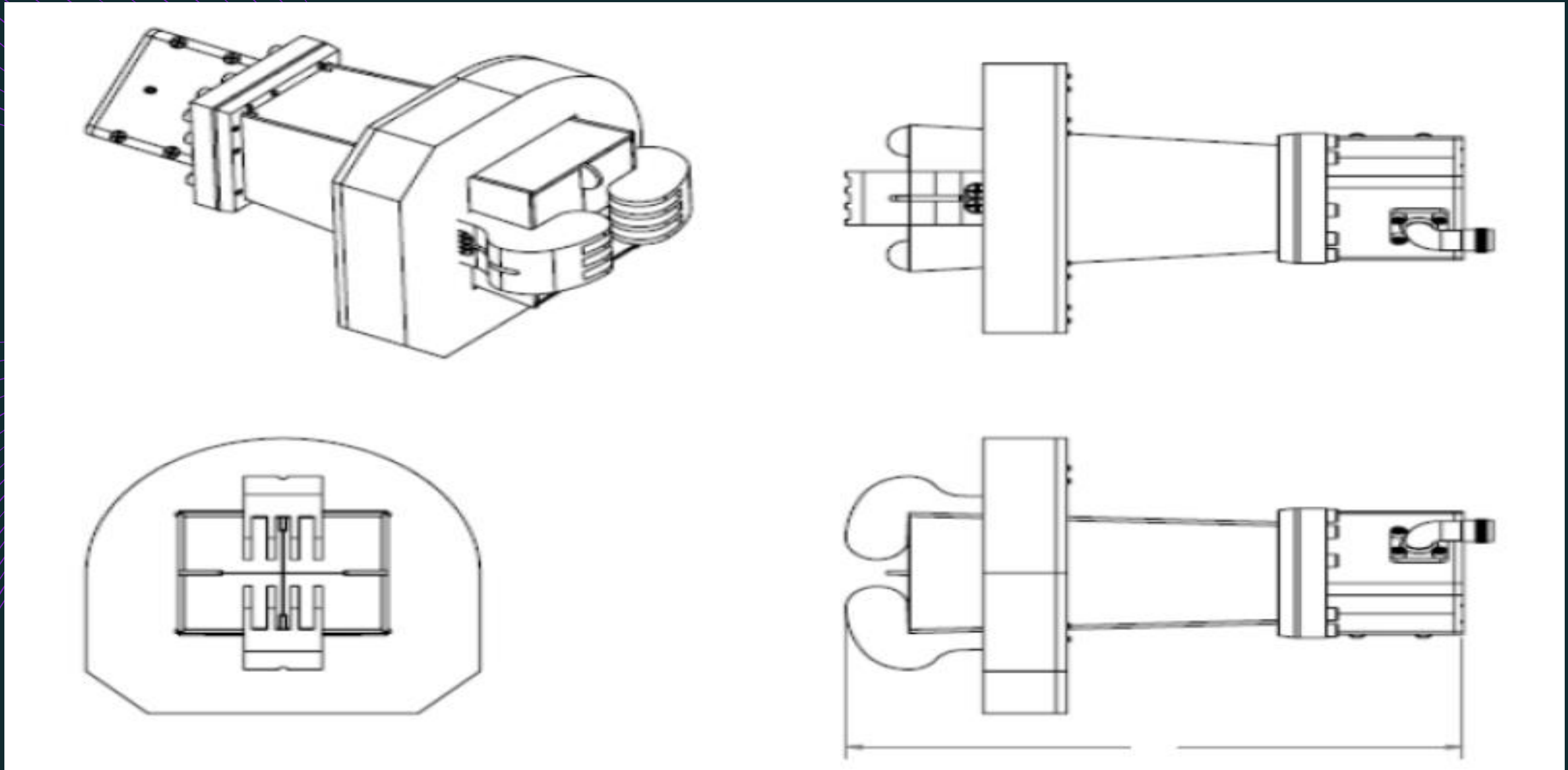
Direction Finding Antenna System Performance



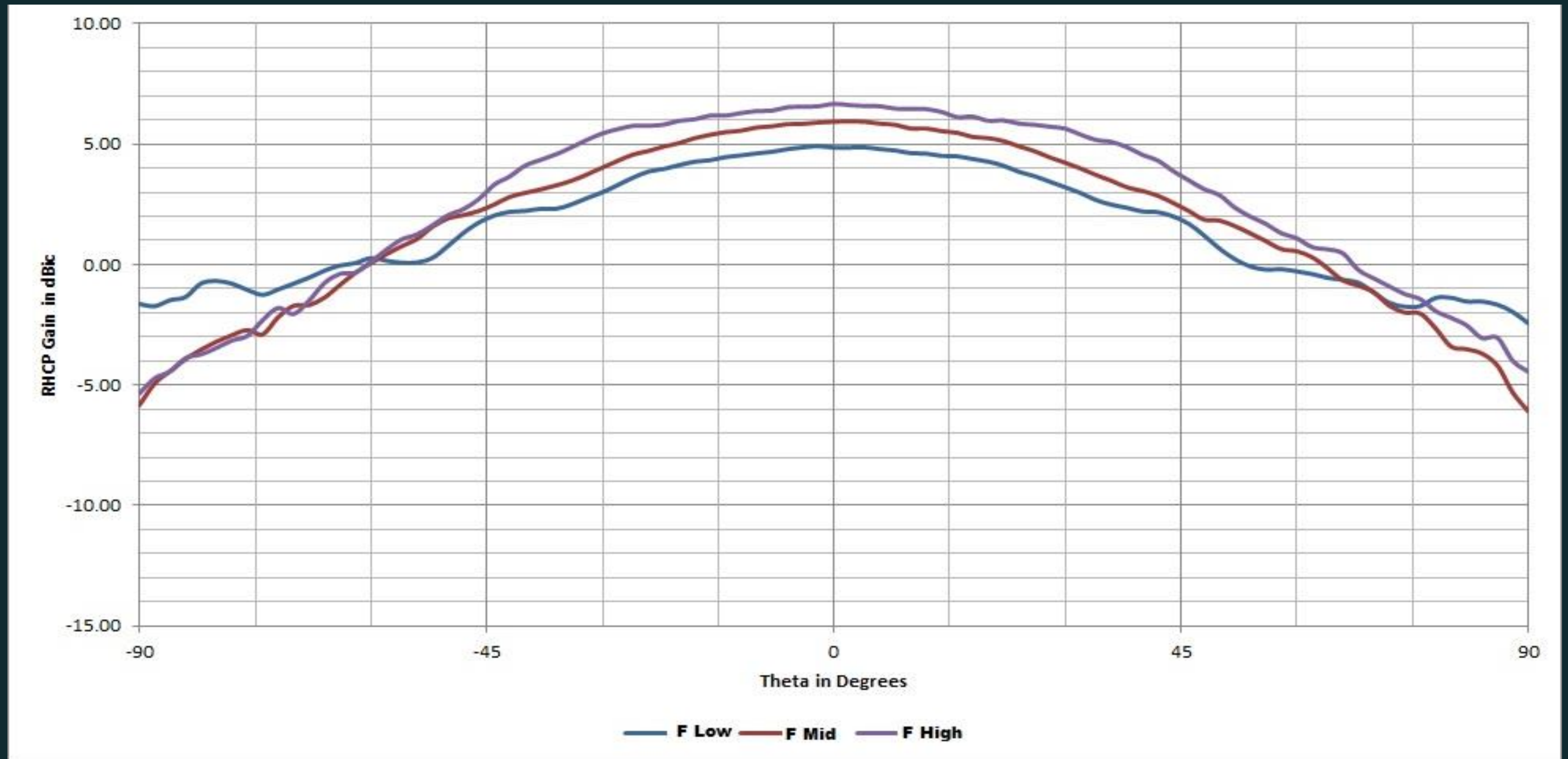
Phased Array and BFN System

- RADAR Monopulse System
- Glint 0 degrees
at all frequencies

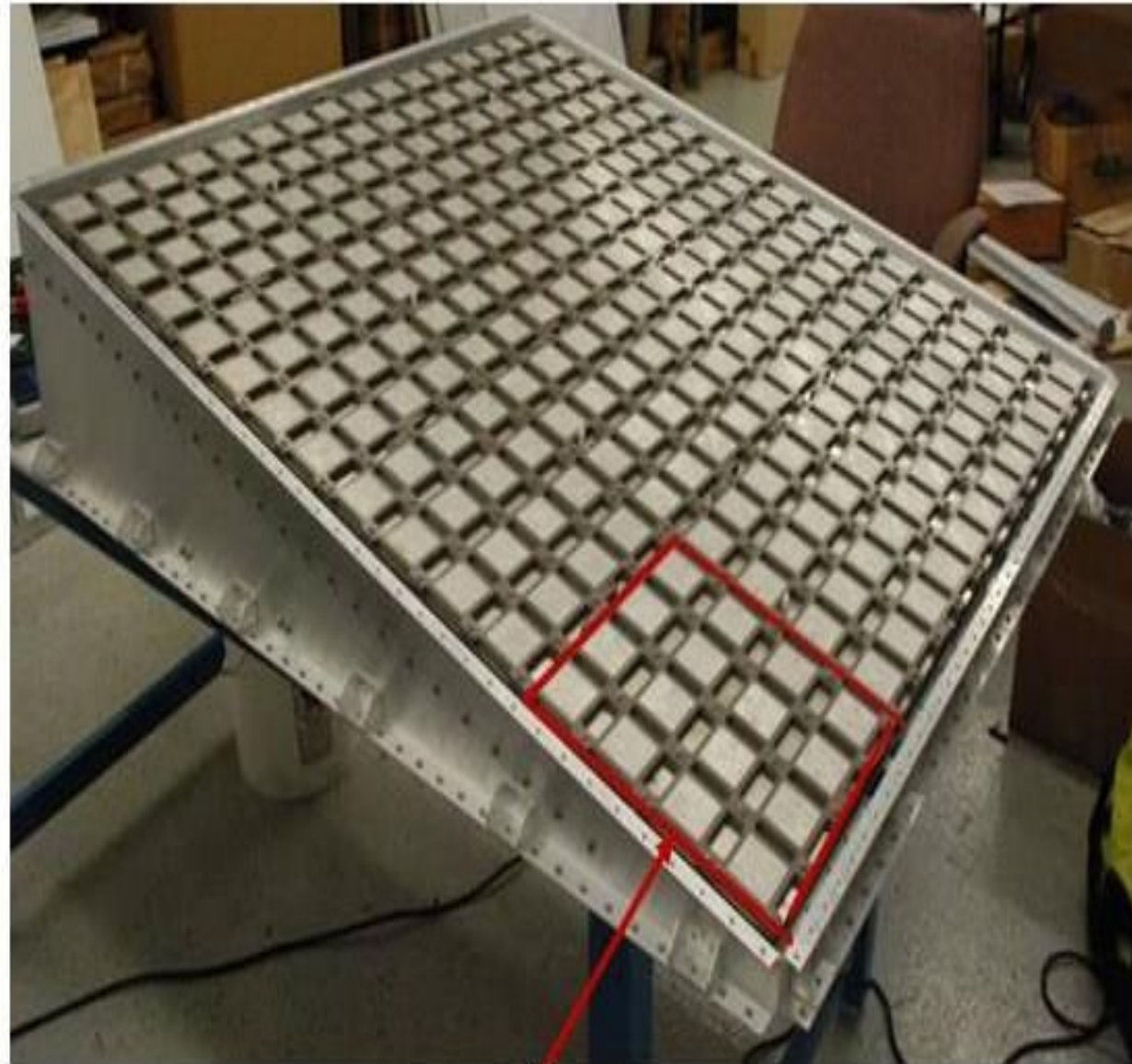
Supersonic Aircraft Jammer



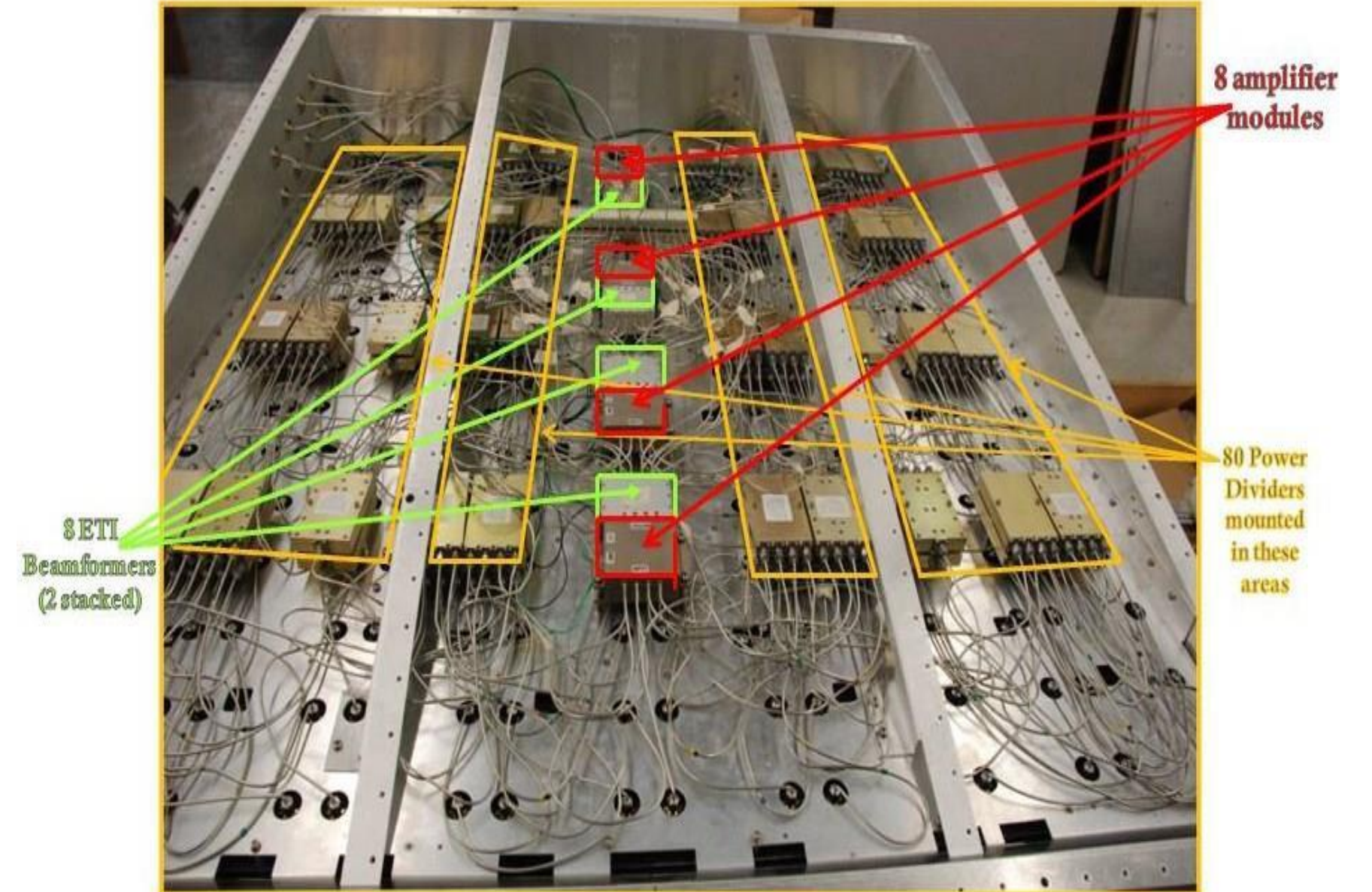
Jammer Horn Antenna Performance



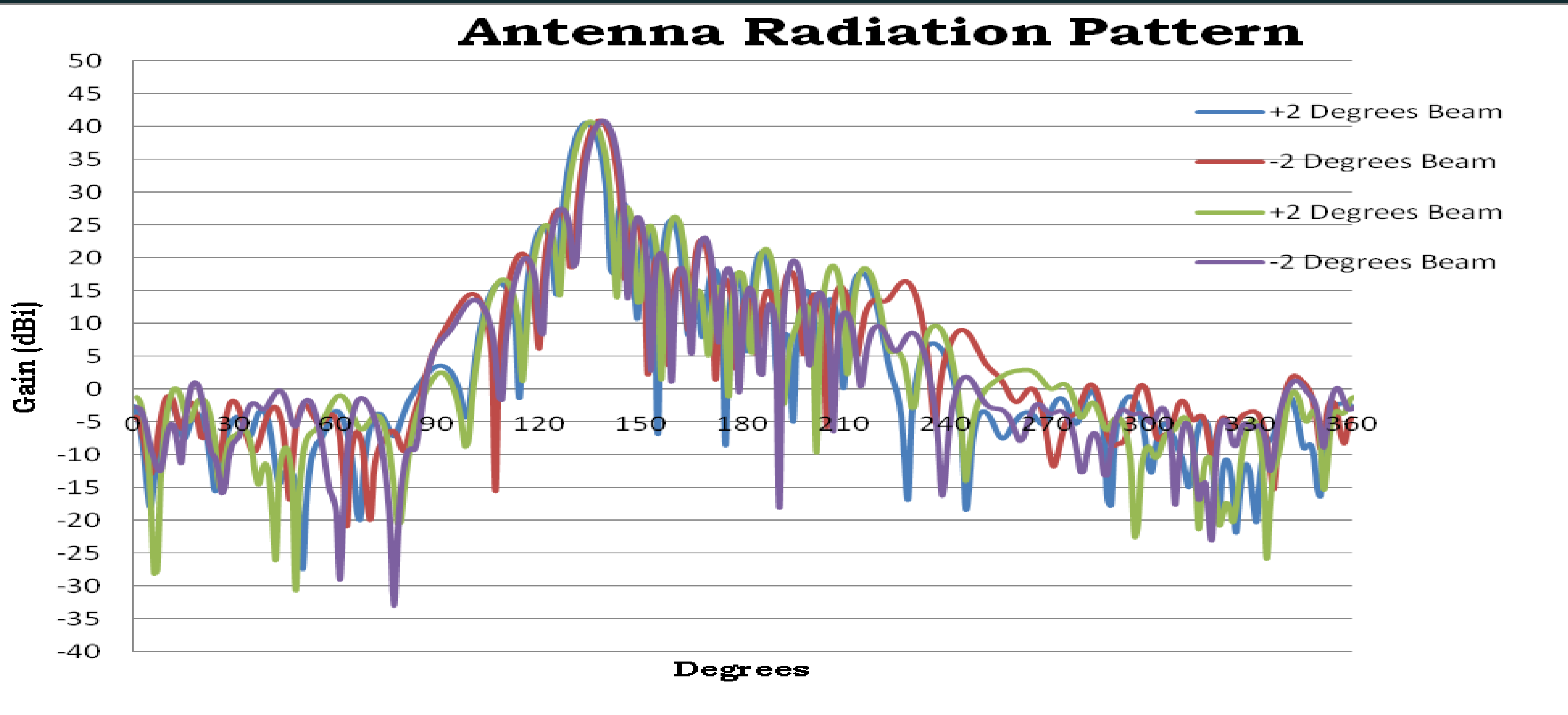
Phased Array and BFN System



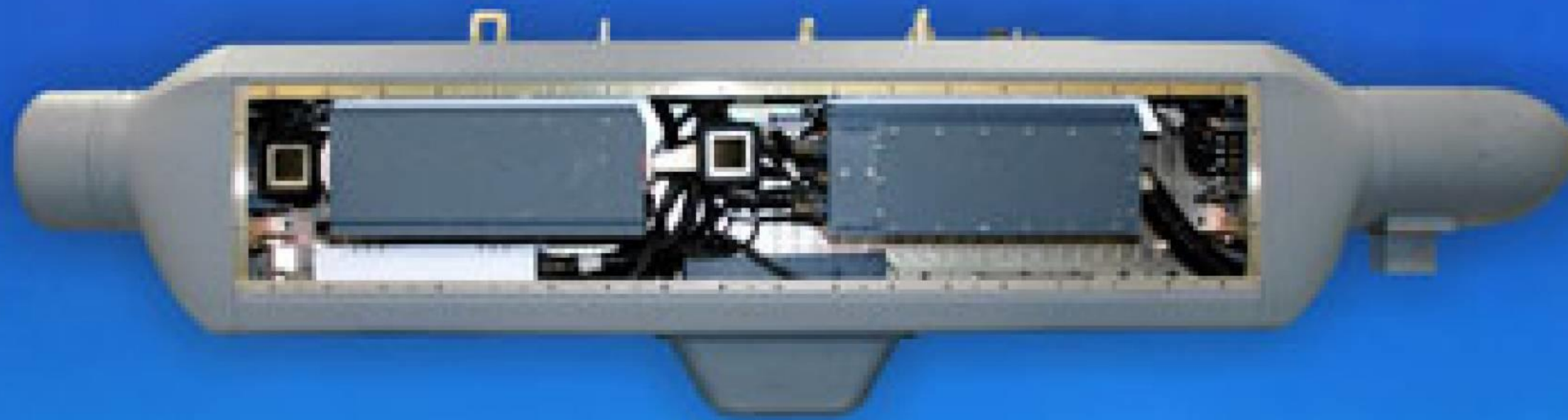
1 of 16 Sub-Arrays



Monopulse RADAR Performance



Electronic Warfare System Provided to USA & NATO Countries

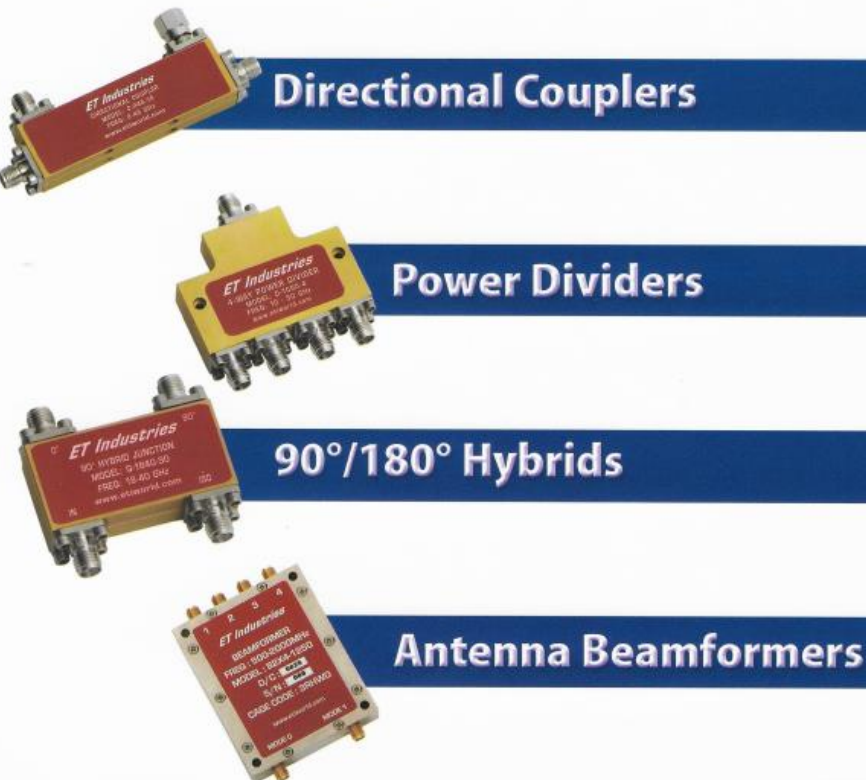


ETI is the **premier** provider of several
systems to Boeing.



Why ETI?

**10MHz to 67GHz
Components**



Directional Couplers

Power Dividers

90°/180° Hybrids

Antenna Beamformers

et industries

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DESIGN AND MANUFACTURE IN USA

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- Personalized attention