



Anteral

Innovative Antennas,
Passives & Radar Technologies.

The image features a dark gray background with several thin, red, curved lines that sweep across the frame from the top left towards the bottom right, creating a sense of motion and modernity.

OUTLINE

01

OUR COMPANY

04

uRAD: RADAR
TECHNOLOGY

02

OUR DEVELOPMENTS

05

R&D

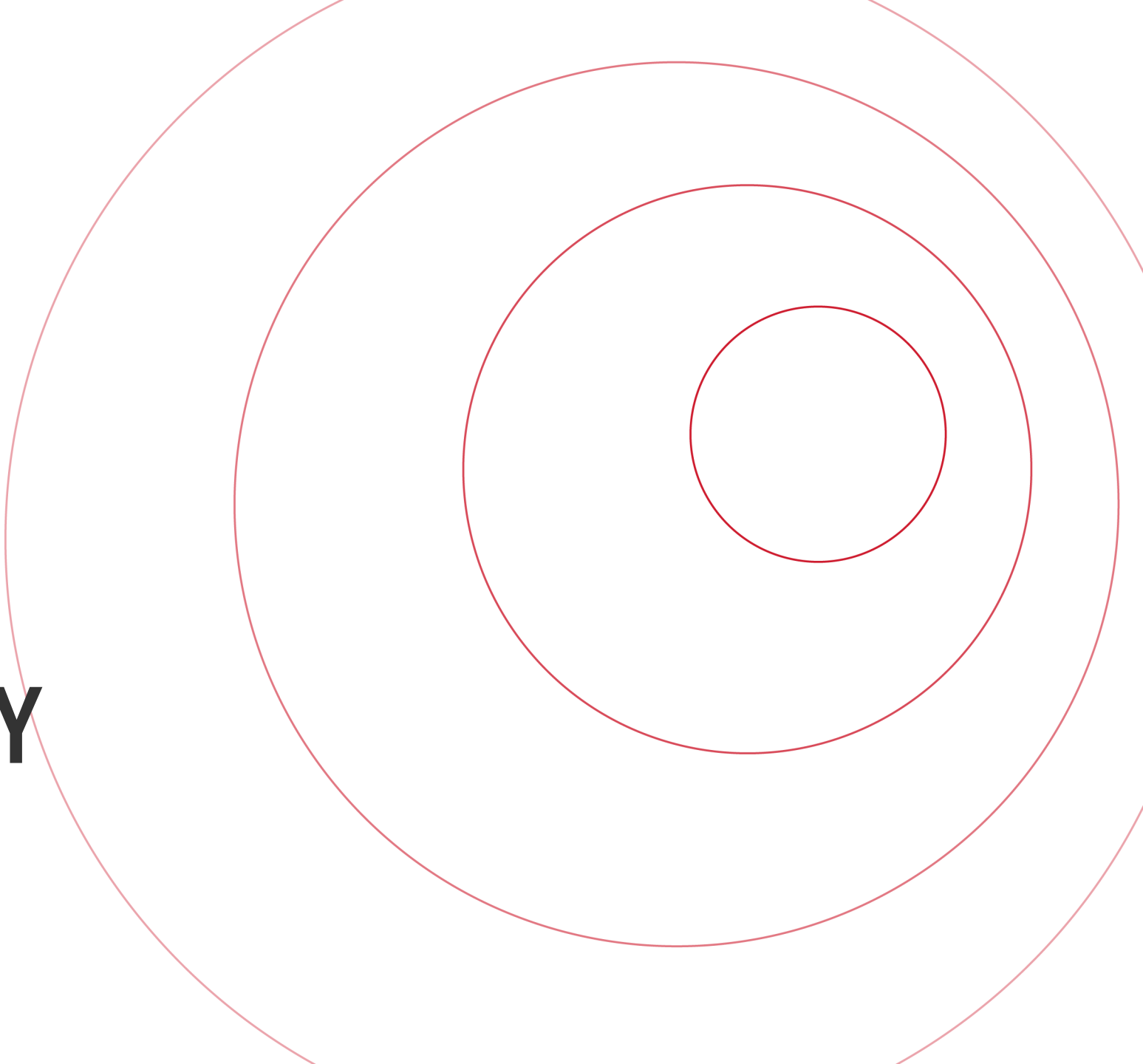
03

ANTENNAS & PASSIVES

Anteral

01

OUR COMPANY



WHERE WE COME FROM

Stablished in 2010

SPIN OFF company from Public University of Navarra

Knowledge transfer from the Antenna Group

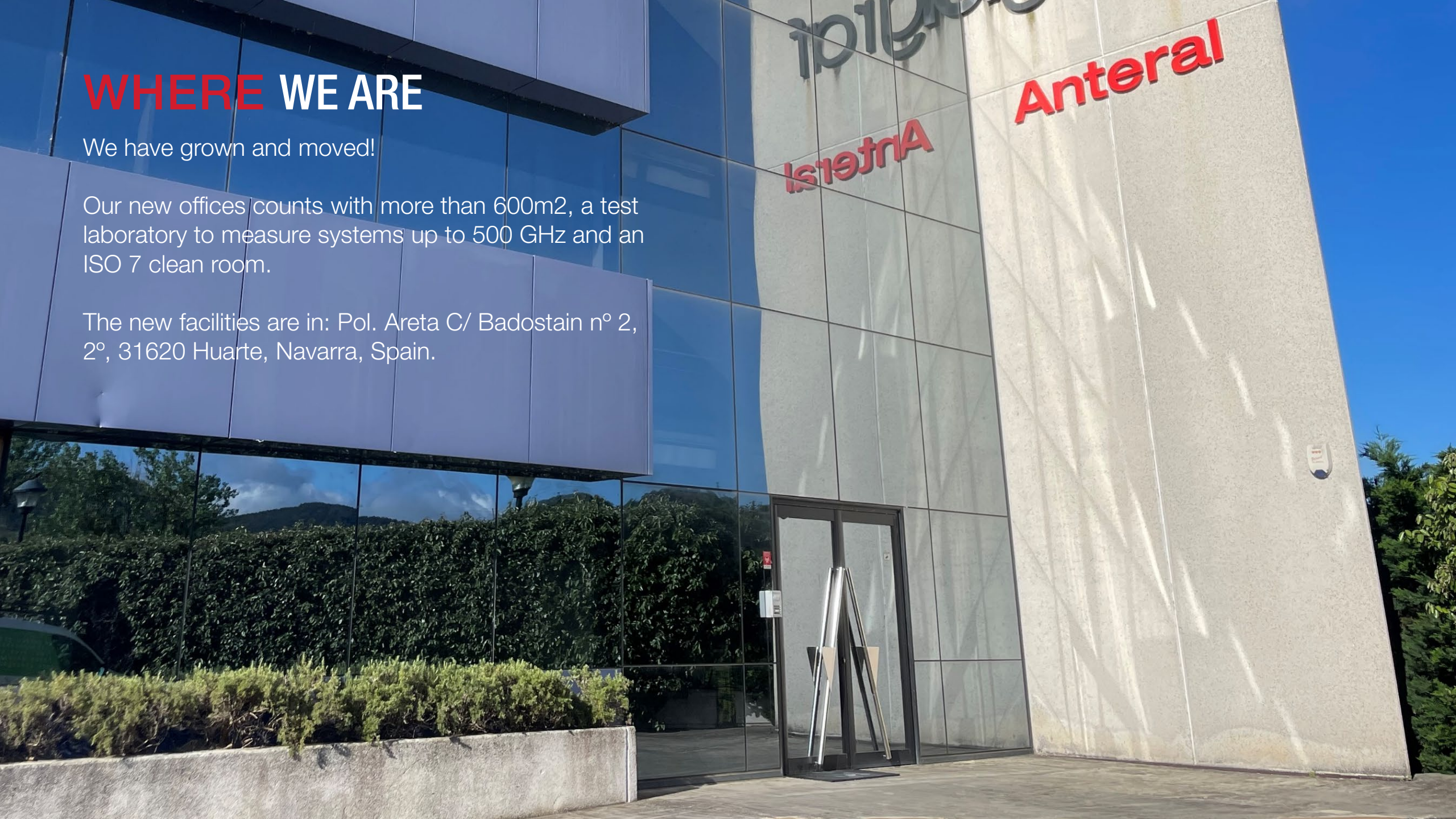


WHERE WE ARE

We have grown and moved!

Our new offices counts with more than 600m2, a test laboratory to measure systems up to 500 GHz and an ISO 7 clean room.

The new facilities are in: Pol. Areta C/ Badostain nº 2, 2º, 31620 Huarte, Navarra, Spain.





WHERE WE ARE

#Navarra2Space

Clients in more than 50
countries trust in us

DISTRIBUTORS:

Germany

Argentina

China

India

Israel

Japan

Korea

UK

EEUU

Anteral

Pol. Areta C/ Badostain nº 2, 2º, 31620
Huarte, Navarra, Spain

WHO WE ARE



Dr. Itziar Maestrojuán Biurrun
CHIEF EXECUTIVE OFFICER
(CEO)



Dr. Víctor Torres Landivar
RADAR CTO



Dr. Fernando Teberio Berdún
ANTENNAS & PASSIVES CTO



Raquel Esteban Ríos
ADMINISTRATIVE



Xabier Frances Oliz
MECHANICAL ENGINEER



Mario Royo Romero
RF TEST ENGINEER



Alejandro Orbaiceta Fernández
RF ENGINEER



Ibai Calero Fernández
RF ENGINEER



Gonzalo Thomas Erviti
PROJECT MANAGER



Pablo Gonzalo Palacios
TELECOM. STUDENT



Yumur Yalmaz Kerim
SOFTWARE DEVELOPER



Andoni Marzo Oyarbide
PHD CANDIDATE/RESEARCHER



Guillermo Berasategui Herranz
SOFTWARE ENGINEER



Javier Jiménez Peña
RF ENGINEER



Itziar Aldaia Galarreta
ADMINISTRATIVE



Vanessa Urdiroz Castillo
MARKETING & COMMUNICATION
MANAGER



Dr. David Santiago Arriazu
RF ENGINEER



Juanjo Ballesta Huertas
PHD STUDENT



Xabier Zúñiga Yanguas
ELECTRONICS ENGINEER



Mónica Pierola Gaviria
MECHANICAL ENGINEER



Adrián Rubio Lamana
RF ENGINEER

21 people – 35% PhD – 85% Engineers

Innovation – Quality -Team building –
Commitment - Passion for challenges



02

OUR DEVELOPMENT LINES

ANTERAL DEVELOPMENT LINES

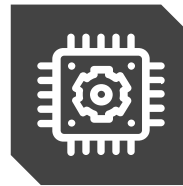


ANTENNAS & PASSIVES

Development of high performance antennas and passives for Space, Telecommunications, etc.

Development of radar technology for Smart Cities, Industry, etc.

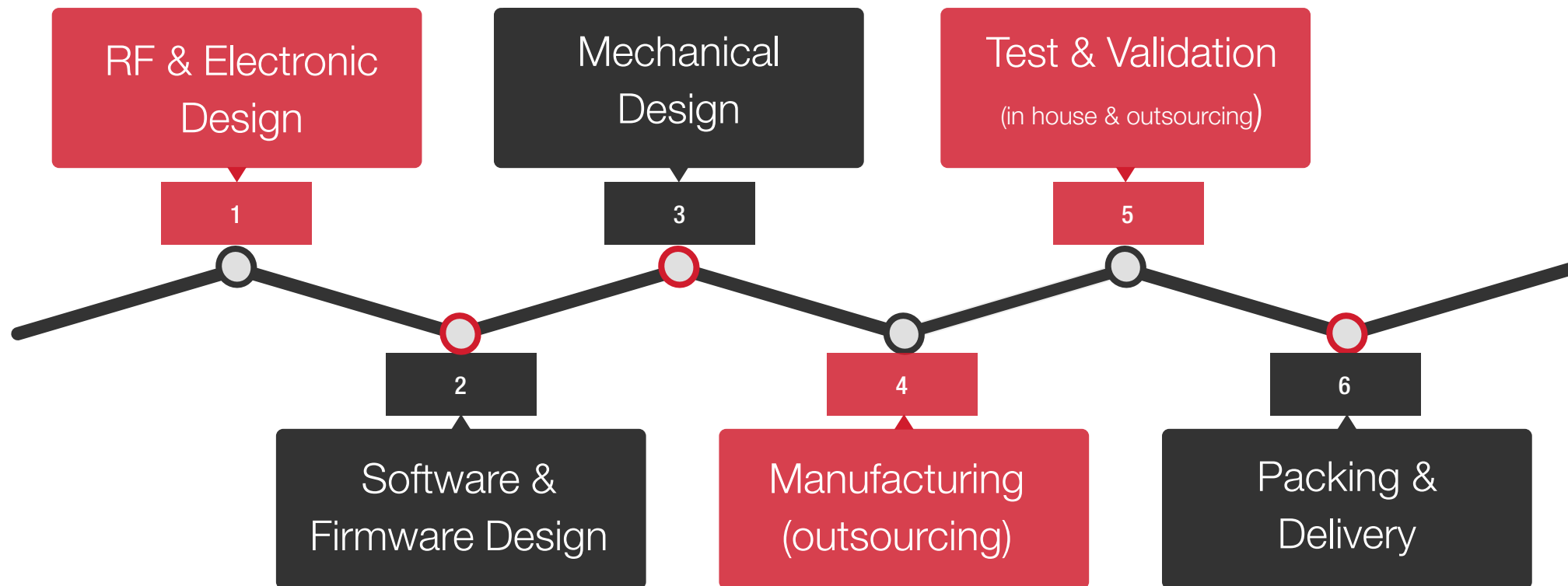
RADAR



R&D

Continuous research and innovation

COMPLETE DEVELOPMENT





03

ANTENNAS & PASSIVES

SPACE & NEW SPACE

A satellite is shown in orbit above Earth, with a vast expanse of white clouds and blue oceans visible below. The satellite's structure, including a large gold-colored thermal blanket and various instruments, is visible on the right side of the frame. The Earth's horizon is visible at the top of the image.

LAUNCHERS



Anteral Innovative Antennas,
Passives & Radar Technologies.

SATCOM

Anteral Innovative Antennas,
Passives & Radar Technologies.



TELECOMMUNICATIONS

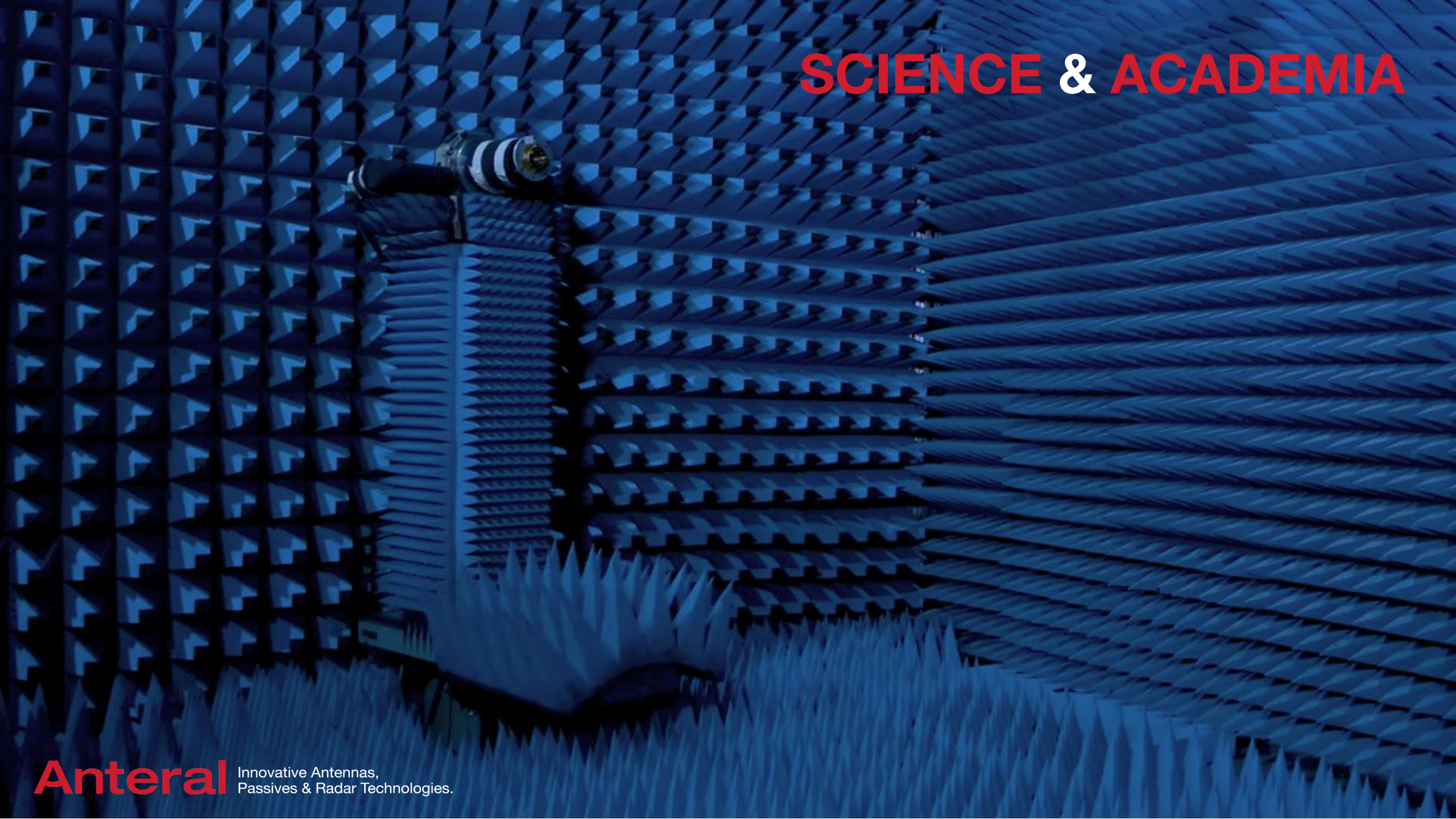
Anteral Innovative Antennas,
Passives & Radar Technologies

An aerial, high-angle photograph of a busy city intersection. Several multi-story buildings are visible, including a prominent white building with a grid-like facade on the left and a tall, dark building on the right. The streets are filled with cars, buses, and trucks. The text "5G & 6G" is overlaid in the top left corner.

5G & 6G

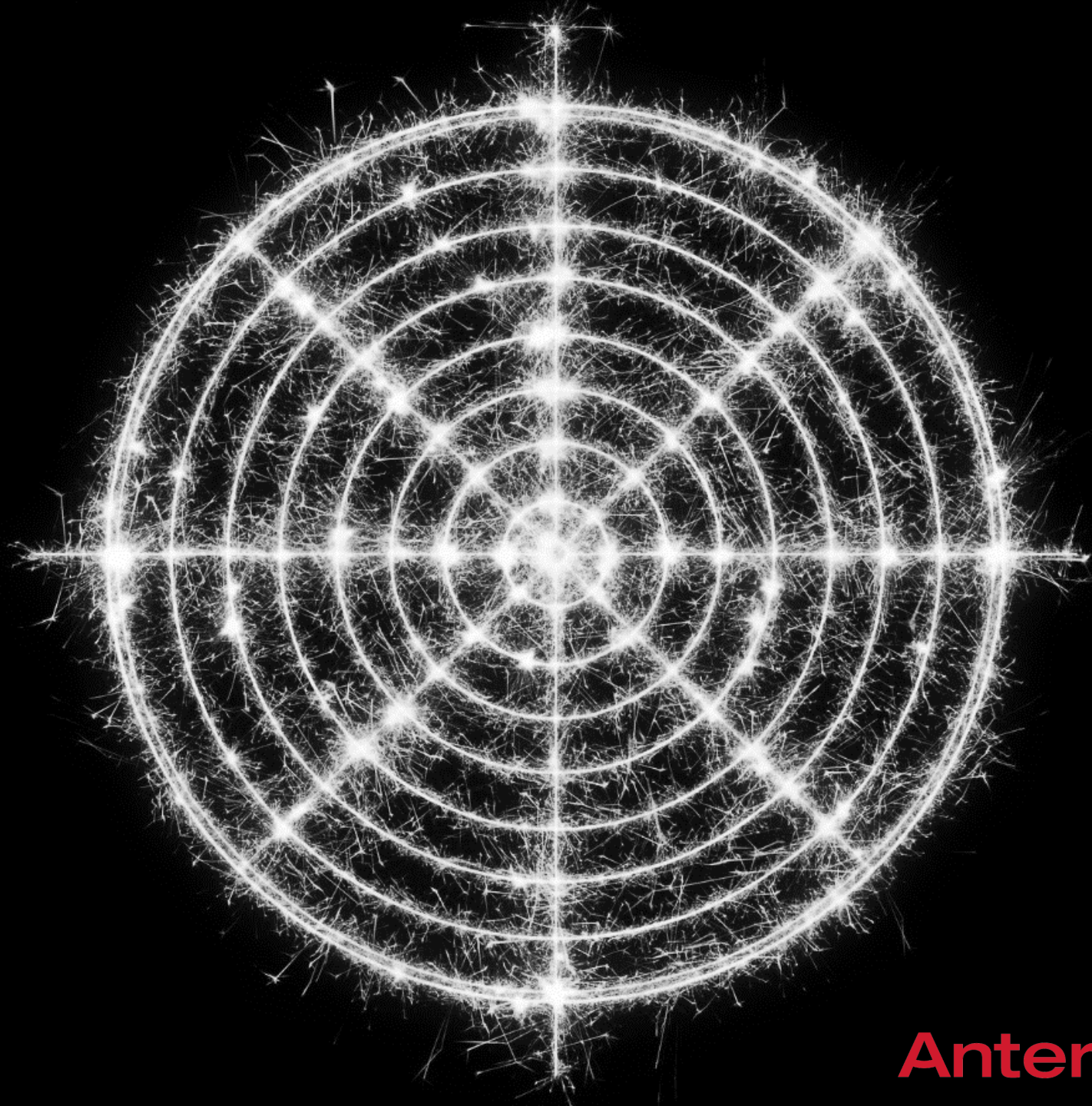
SECURITY & DEFENCE



A photograph of an antenna mounted on a stand inside an anechoic chamber. The chamber's walls, floor, and ceiling are covered with dark blue, pyramid-shaped electromagnetic absorbers designed to eliminate reflections. The antenna is a small, cylindrical device with a metallic base and a black mounting arm. The lighting is dim, highlighting the texture of the absorbers and the metallic components of the antenna.

SCIENCE & ACADEMIA

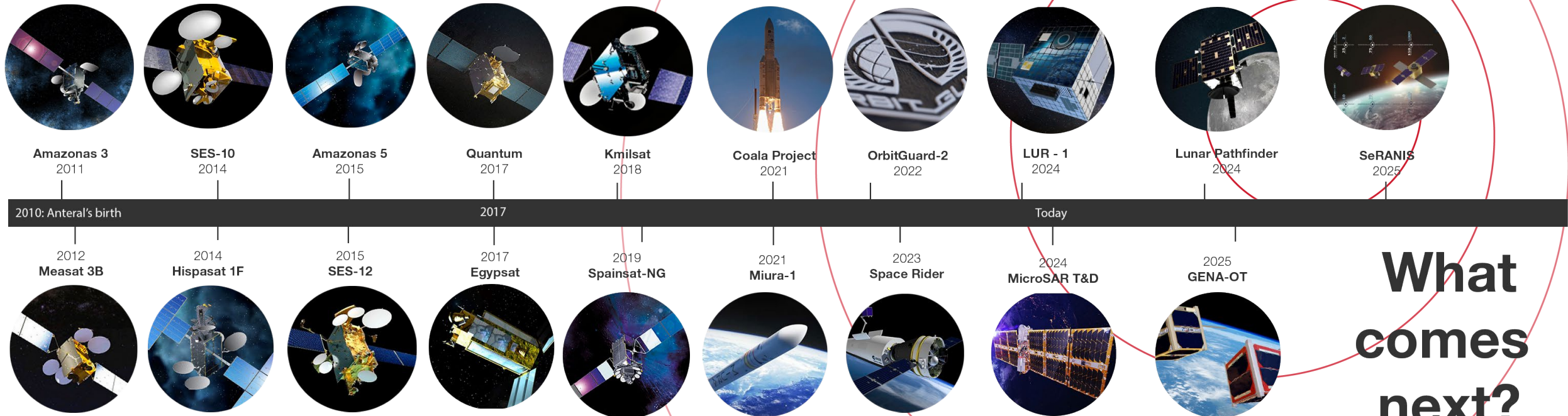
RADAR TECHNOLOGY



HERITAGE & EXPERIENCE

- + 14 years of experience
- + 25 Space programs
- + 30 R&D programs
- + 100 flight models on board
- + 50 countries
- + 250 products

AEROSPACE MISSIONS



What
comes
next?

OUR CLIENTS



...

OUR PRODUCTS





SGH - Standard Gain Horn Antennas

WR90 - WR1.5

Anteral

NFP - Near Field Probes

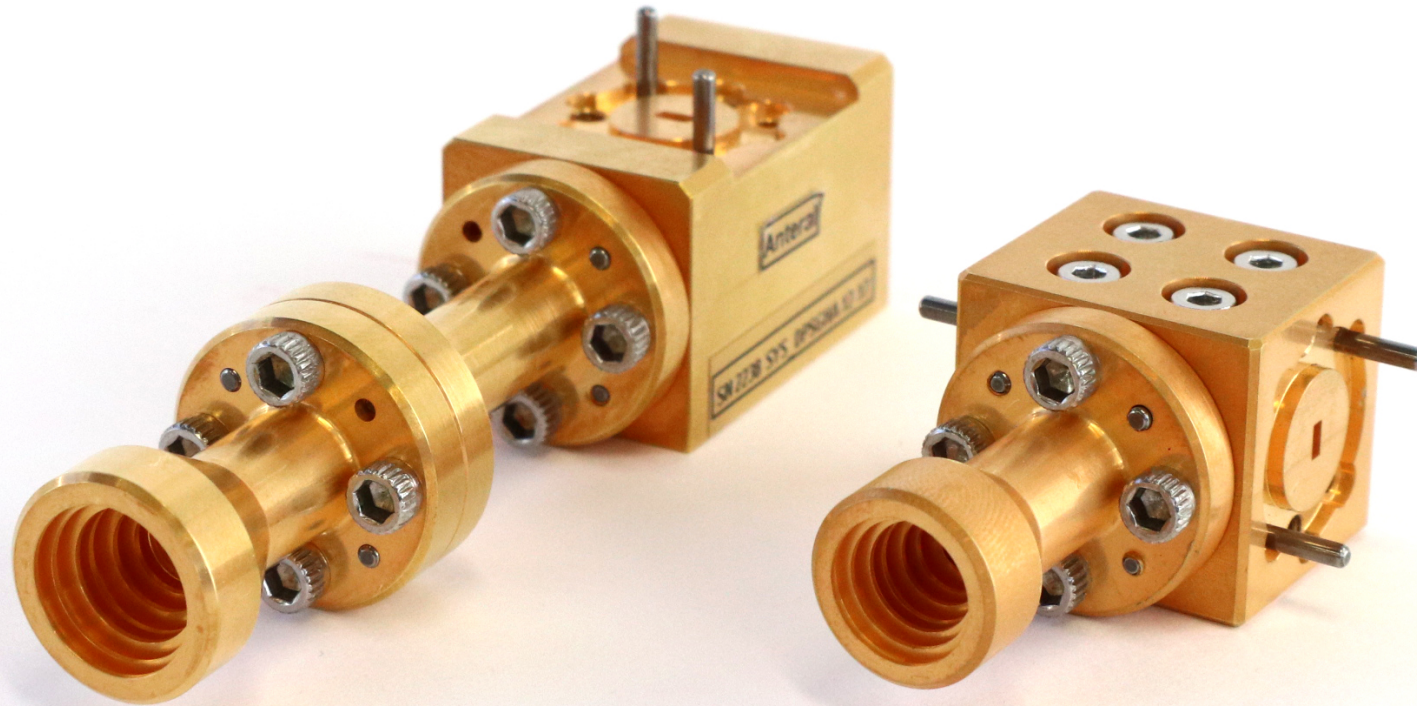
WR90 – WR1.5



SYSTEMS – Dual linear & circular polarized antennas

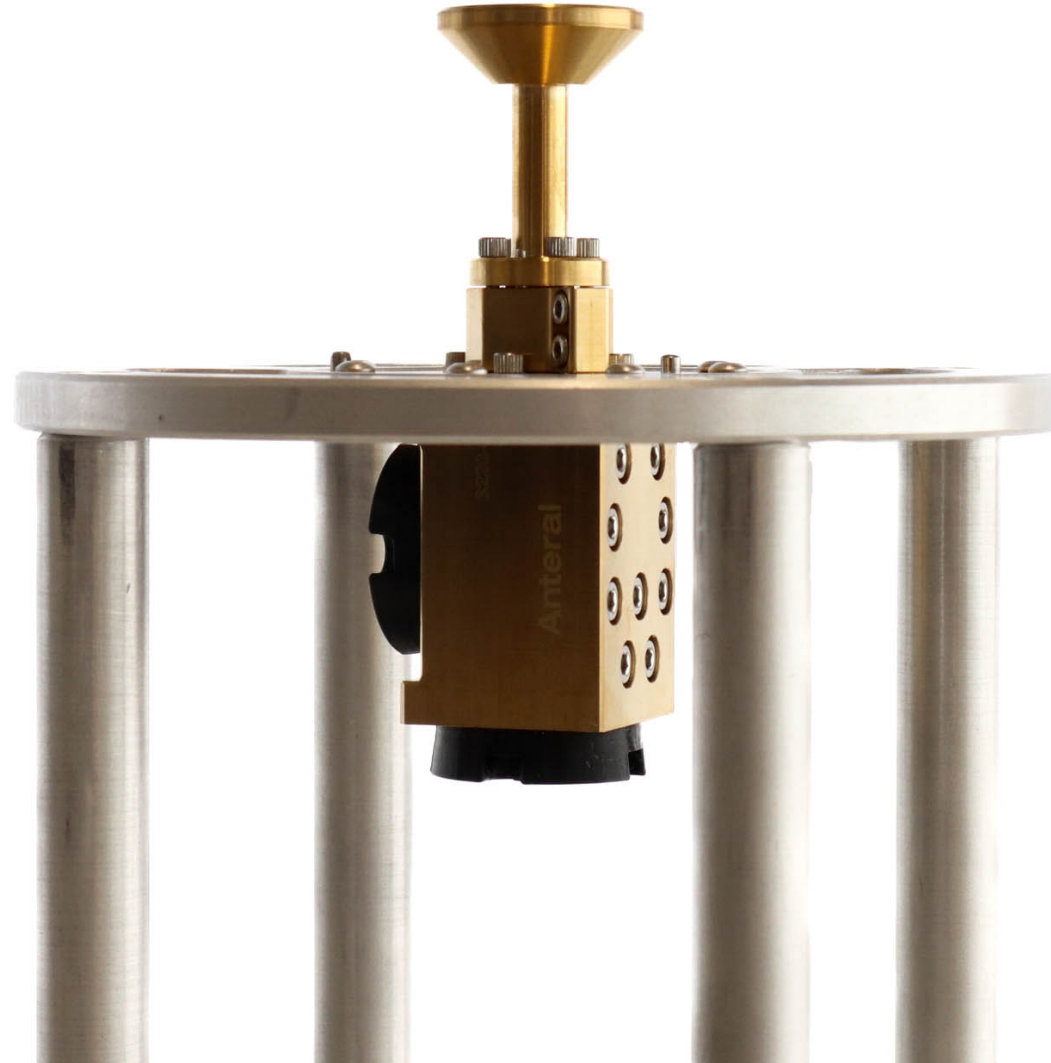
WR12, Gain 18 dBi, Isolation 40 dB

WR10, Gain 18 dBi, AR 1 dB



CATR – Dual circular polarized antennas

2-port, Q/V-band, 13 dBi Directivity, AR < 0.4 dB, Isolation > 25 dB



FLHA – Focusing Lens Horn Antennas

LHA – Lens Horn Antennas

WR90 – WR06



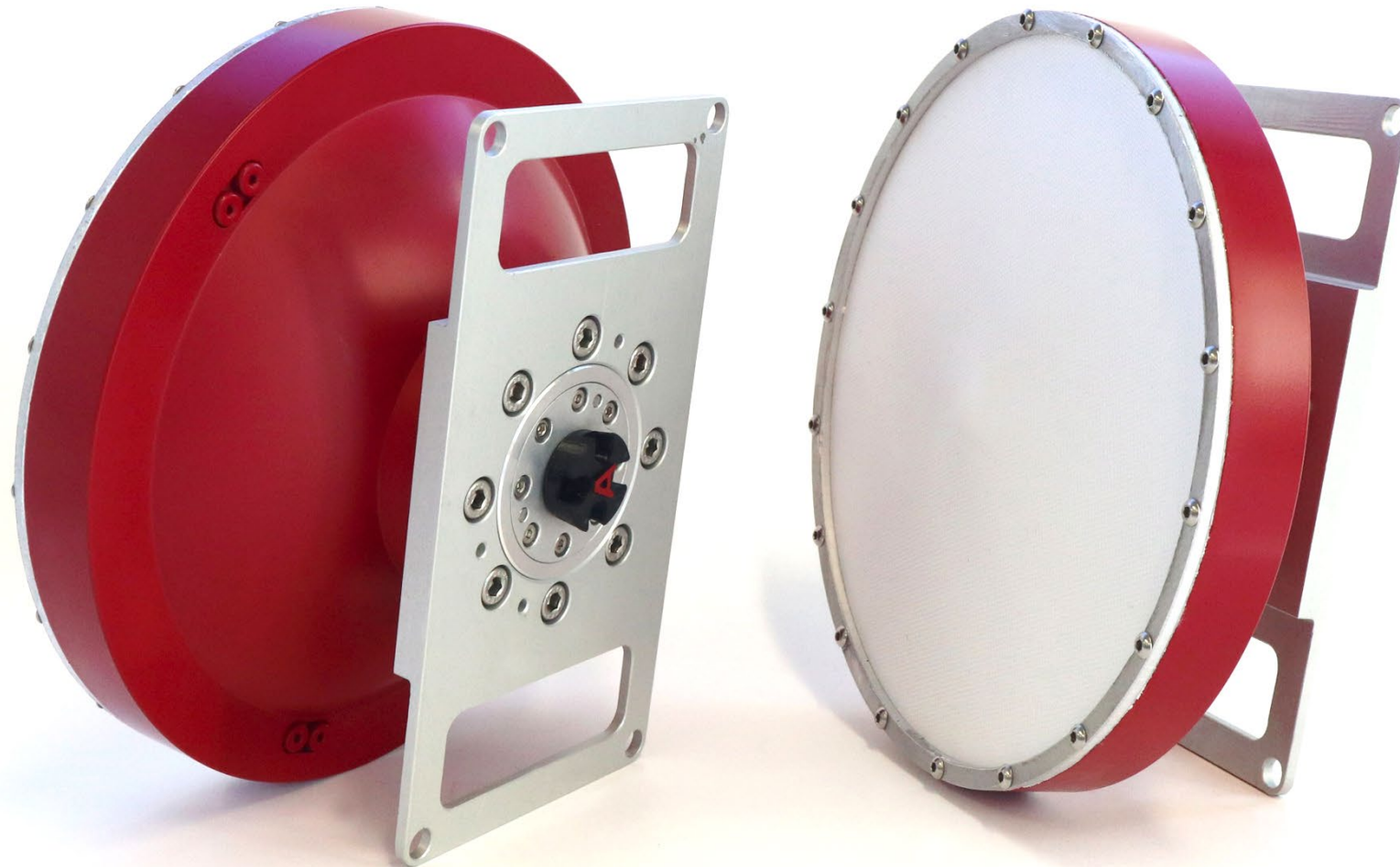
HGLHA - High Gain Lens Horn Antennas

WR06 – WR1.9



CRS – Cassegrain Reflector System Arrays

WR15 – WR1.9



SYSTEMS – Dual circular reflector antennas

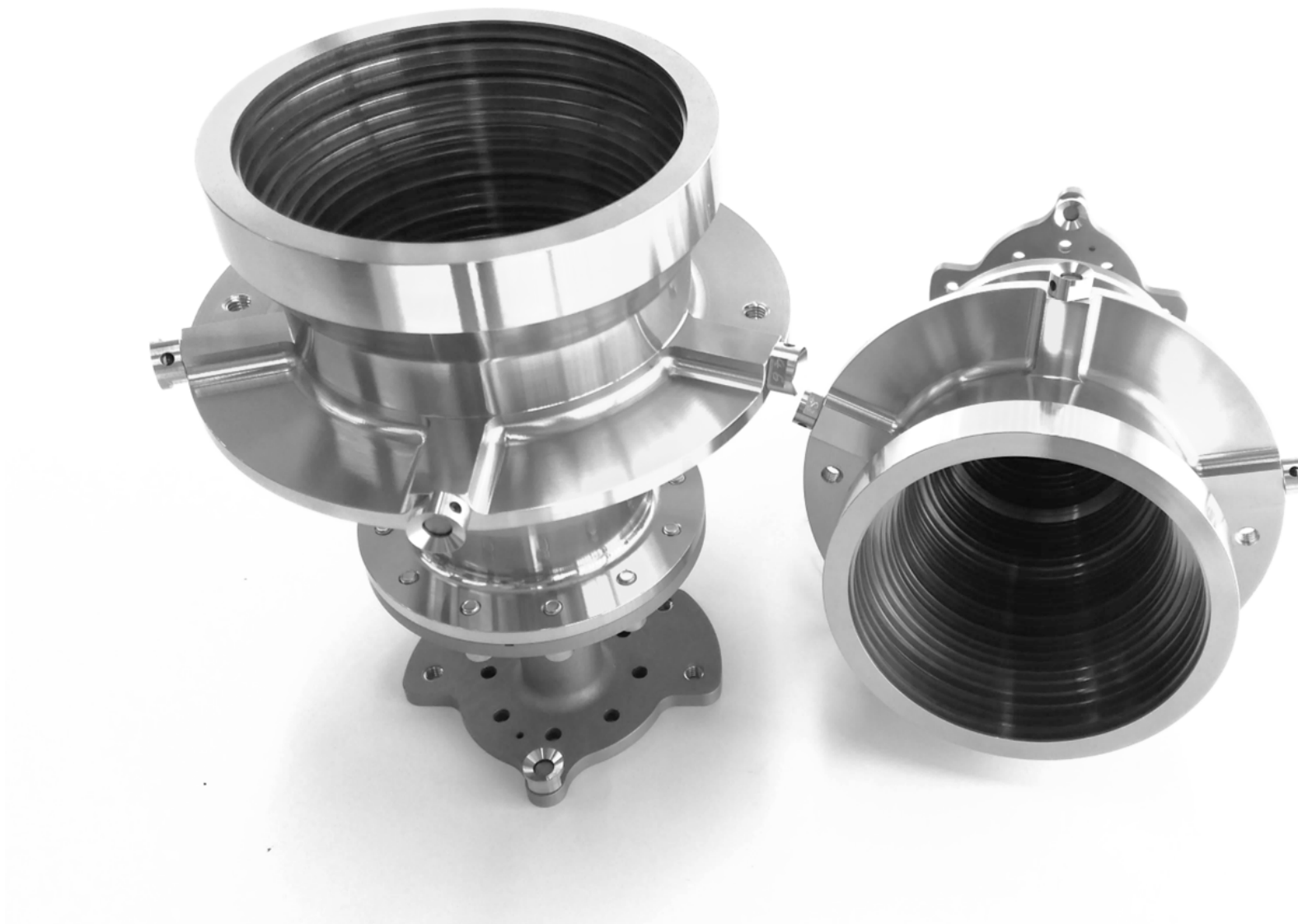
WR10, Gain 40 dBi, perfect for radar applications



TCR – Trihedral corner reflectors



FEEDHORN **ANTENNAS**



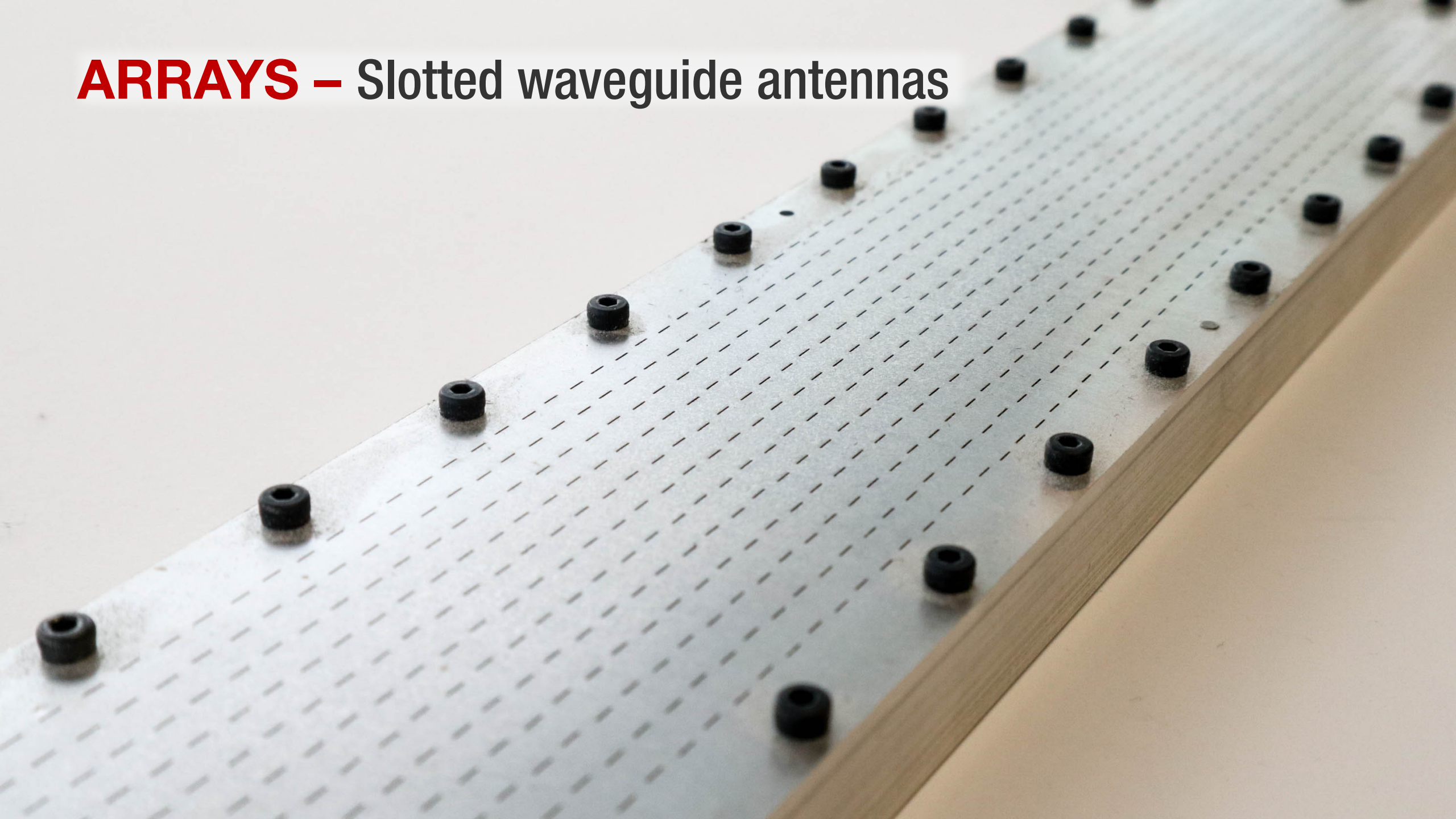
Axial & radial corrugated feedhorn antennas

FEEDHORN **ANTENNAS**

Smooth-waveguide splined-profile feedhorn antennas



ARRAYS – Slotted waveguide antennas



PLANNAR

ANTENNAS for Launchers

GNSS
TT&C
Termination
(UHF, LS, L, S & C bands)



SYSTEMS – 1U Patch antenna for cubesats

X-band RHCP, AR 1.5dB, -13 dB RL

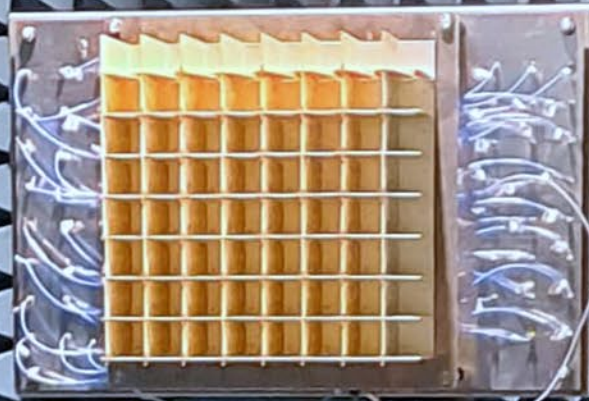
S-band DCP, AR 1dB, -18 dB RL

S-band two channel RHCP, -12 dB RL

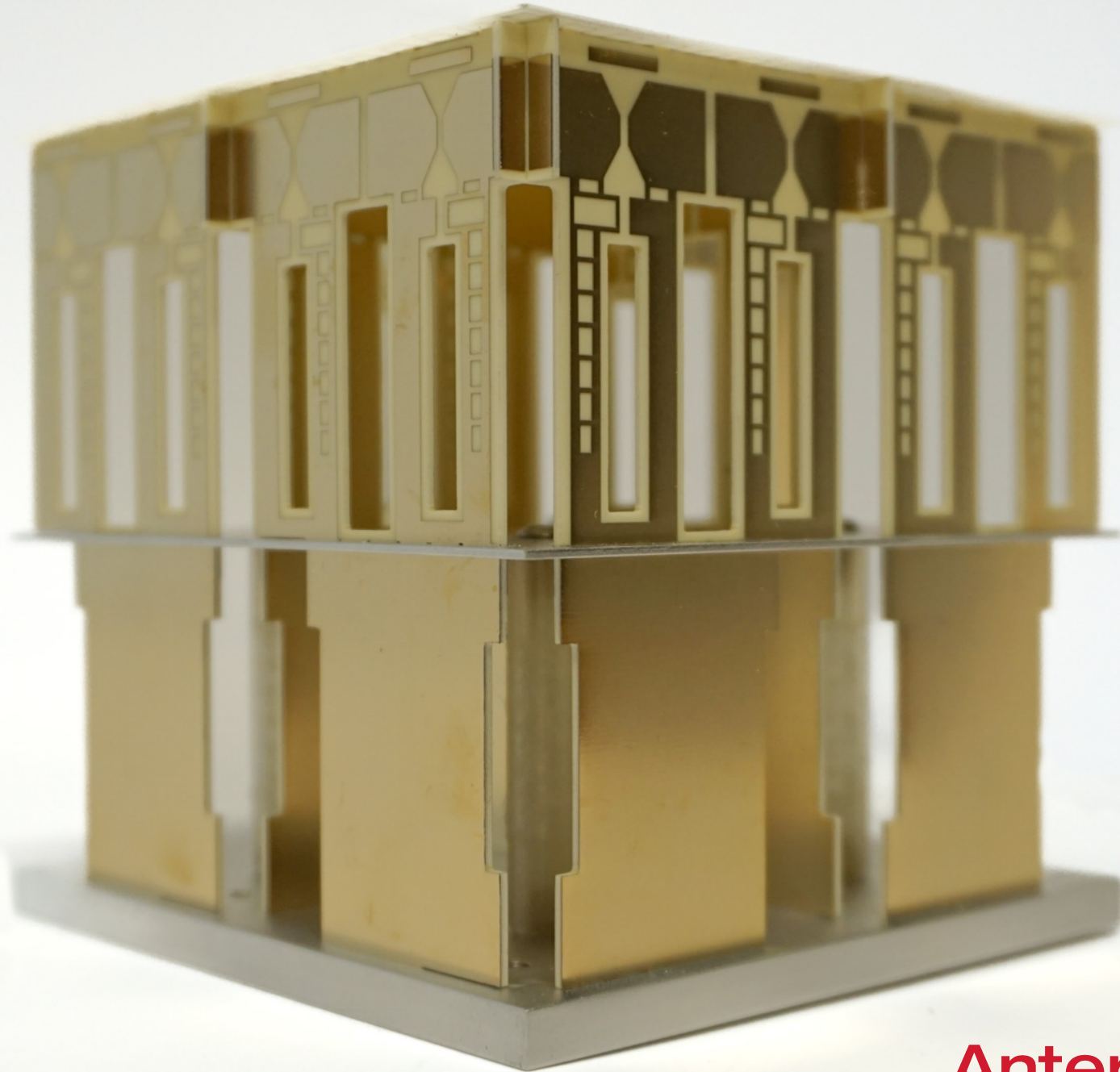
S-band ISM CDP, AR 0.5 dB, -22 dB RL

L-band DCP, AR 0.5 dB, -20 dB RL

AESA ANTENNAS

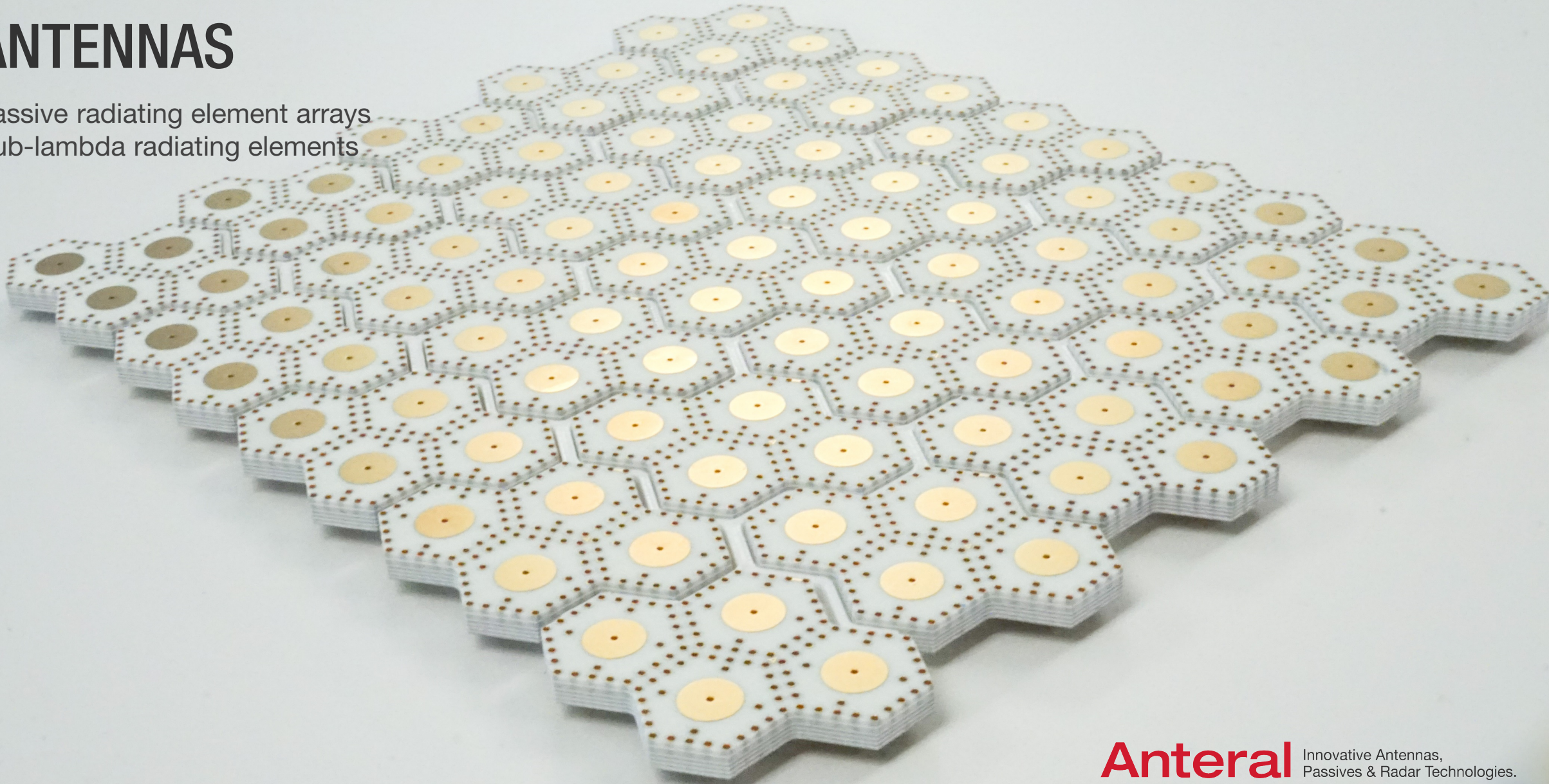


AESA **ANTENNAS**

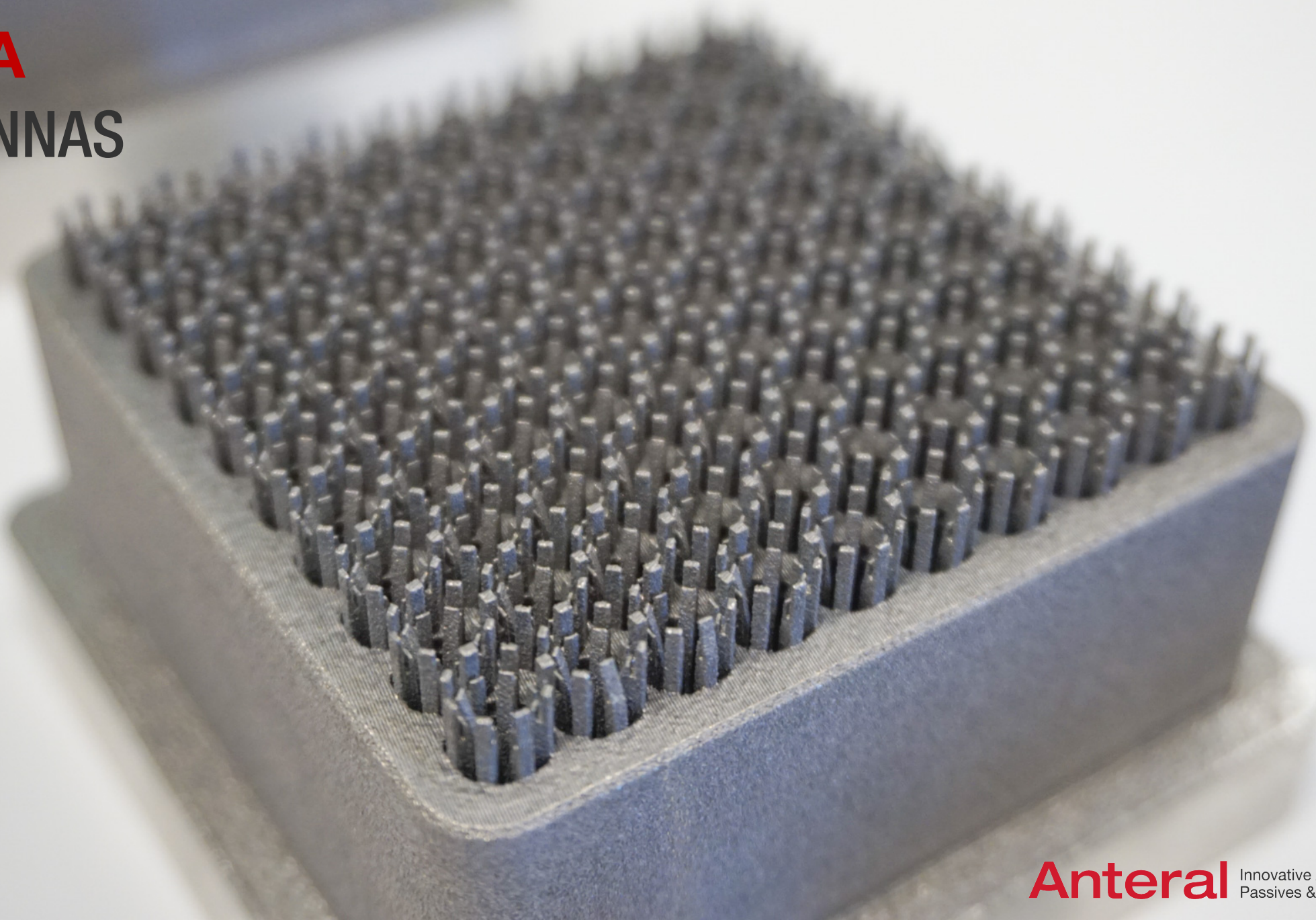


PHASE ARRAY ANTENNAS

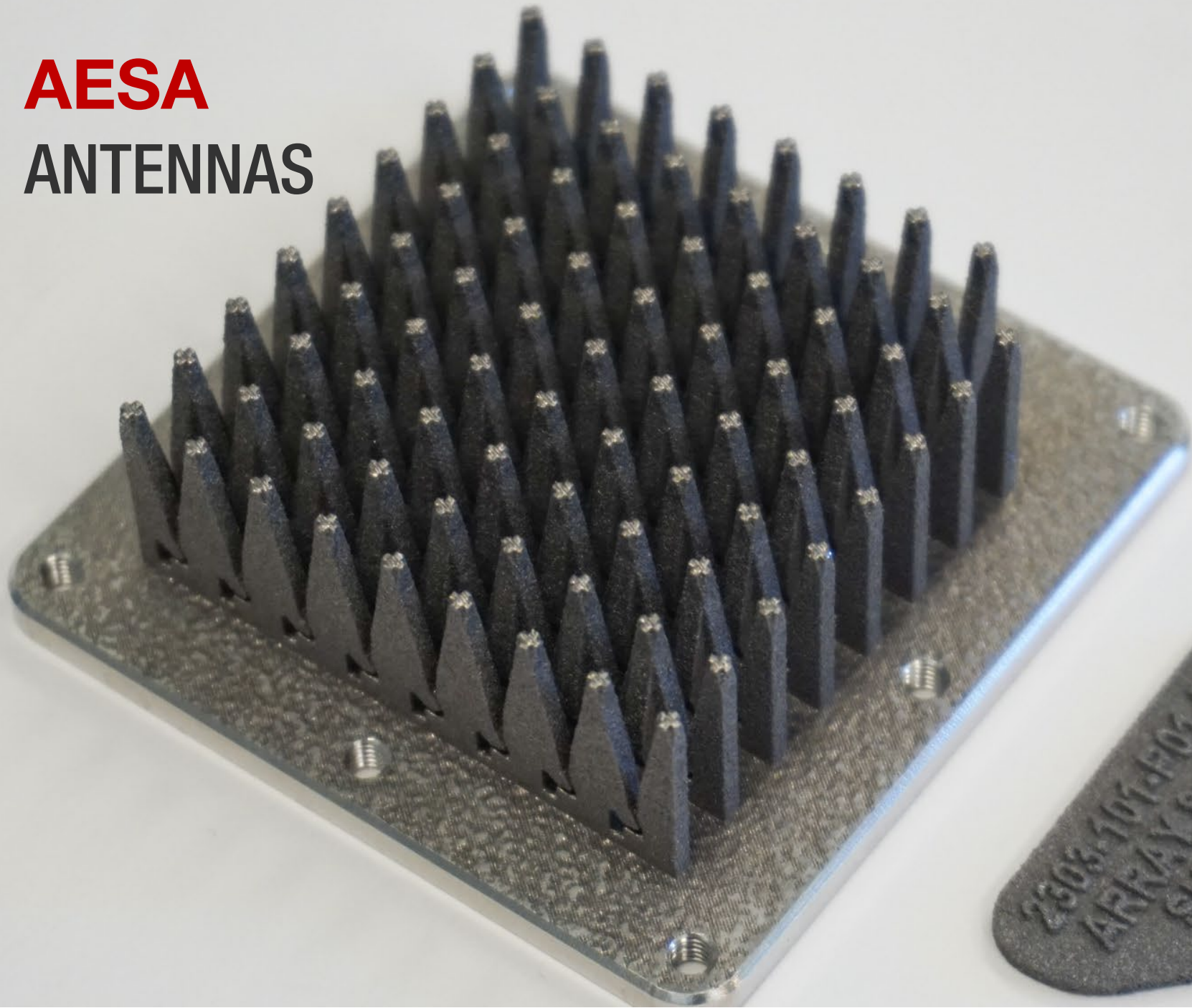
Passive radiating element arrays
Sub-lambda radiating elements



AESA ANTENNAS

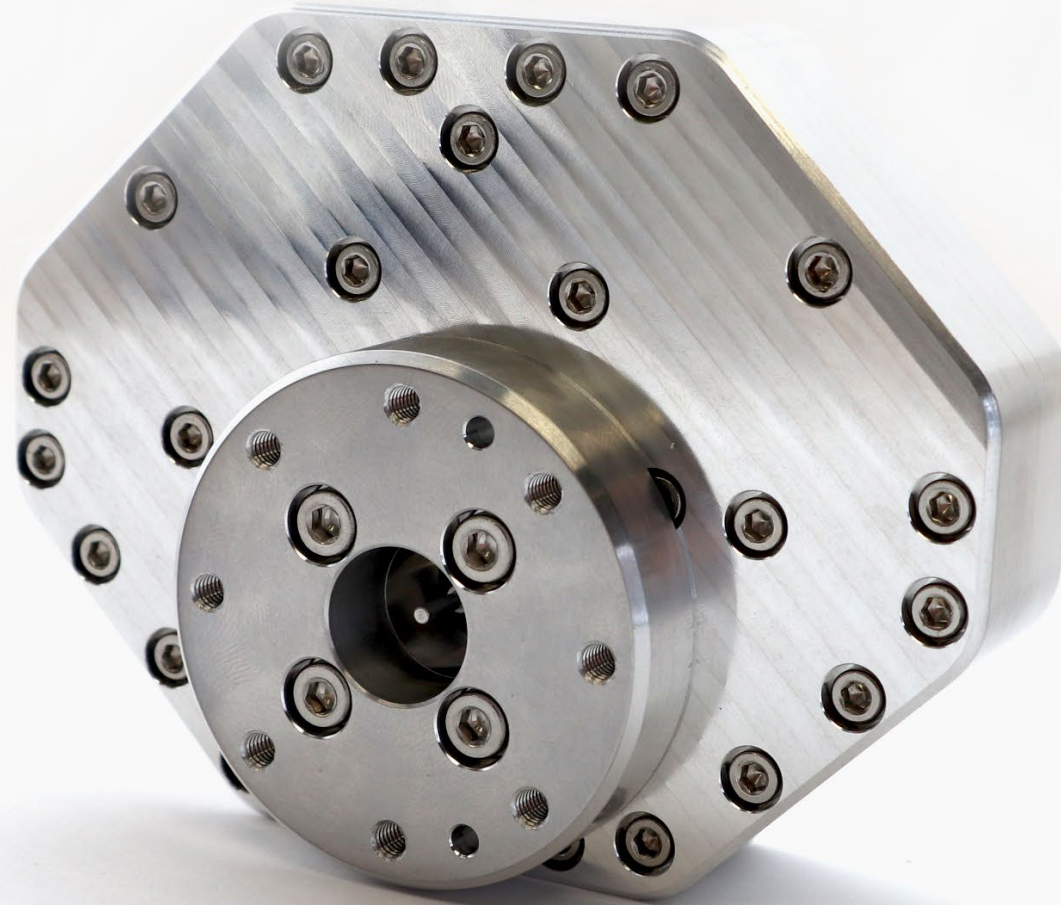


AESA ANTENNAS



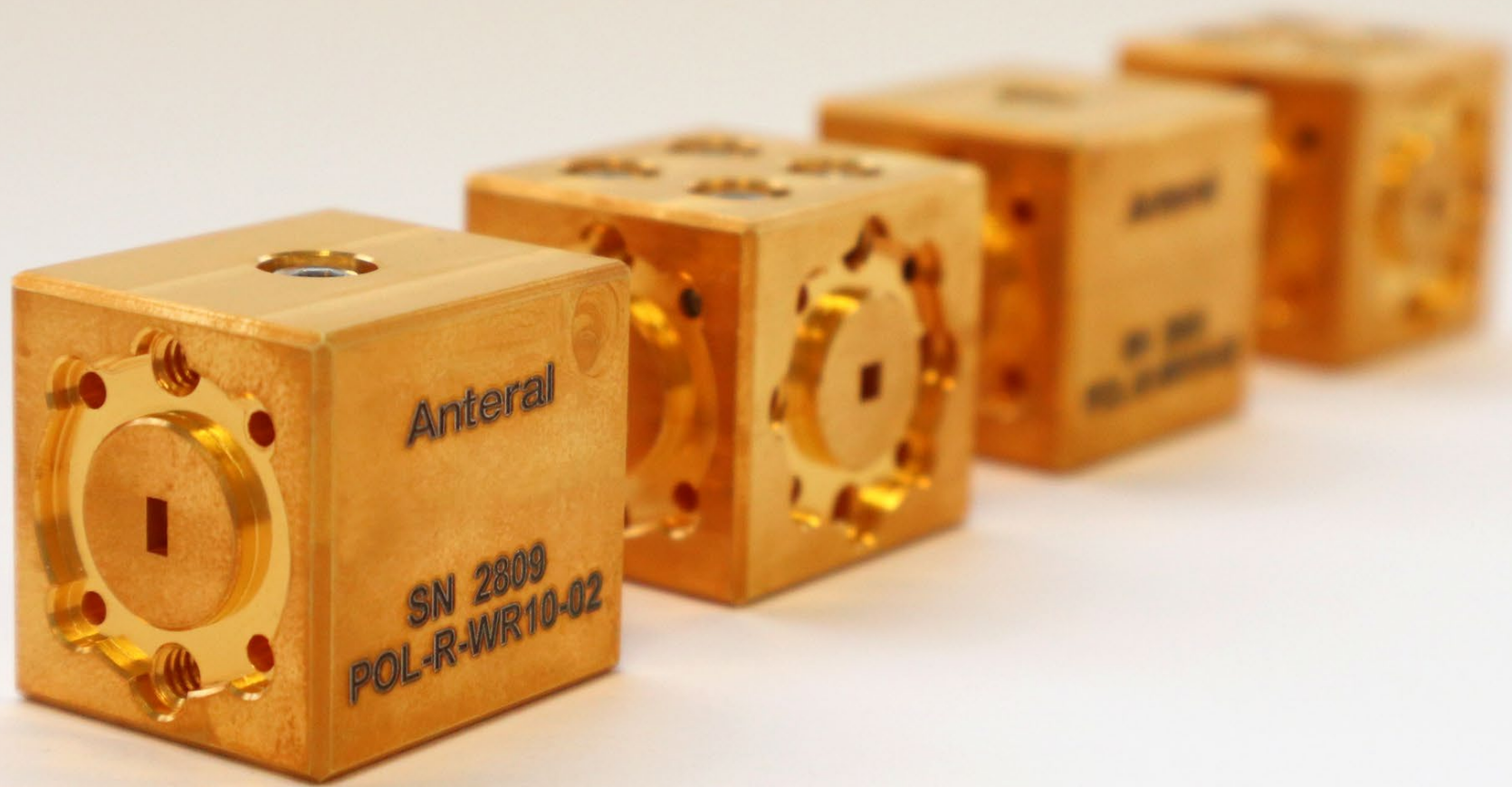
OMT – Orthomode transducers

WR112 – WR6.5



POL - Polarizers

WR112 – WR10



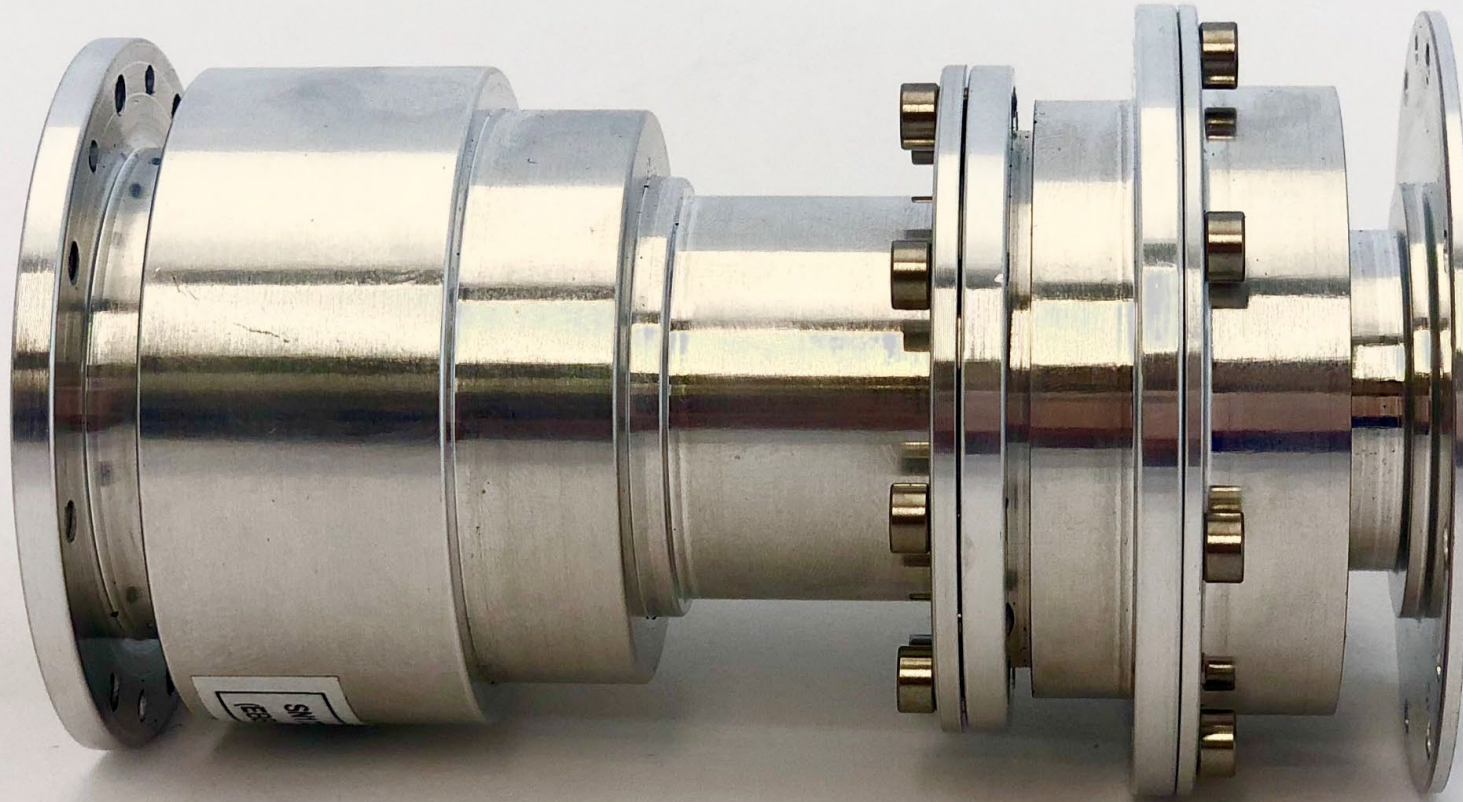
MUX- Multiplexers

WR229 – WR10



FILT - Filters

WR229 – WR10



CPL - Couplers

WR229 – WR10



FSS – Frequency selective surfaces

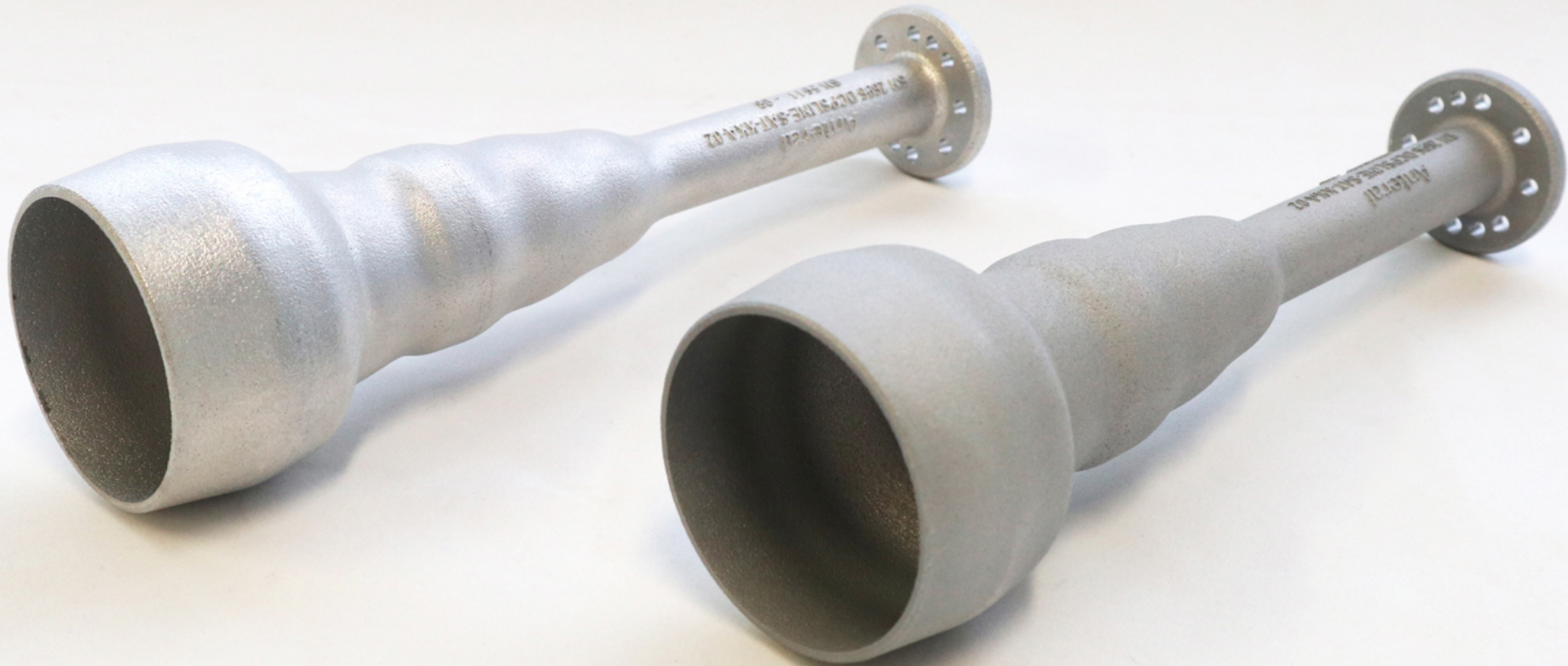
WGP – Wire Grid Polarizers

DC – 2 THz



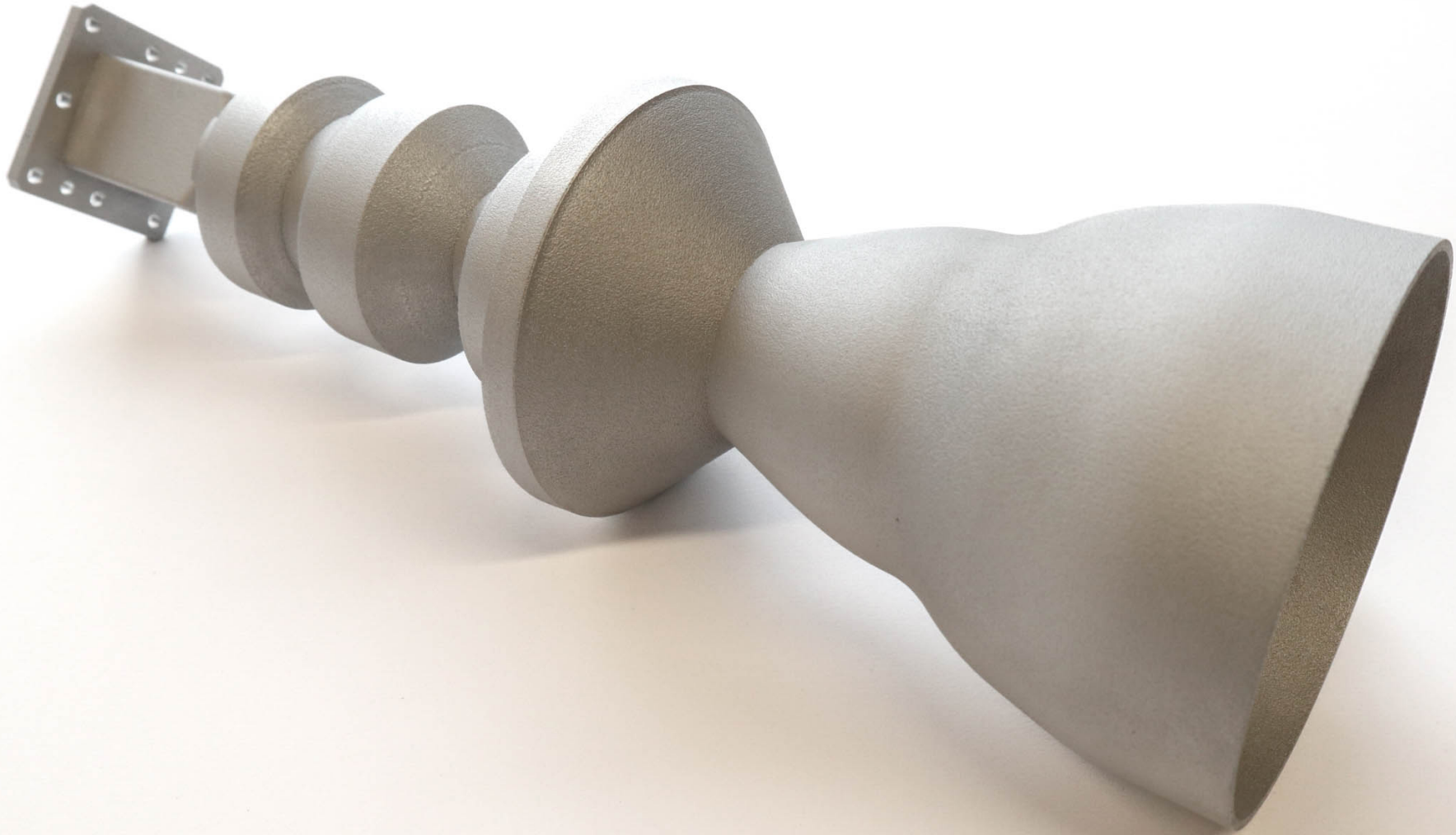
ALM DESIGN

K/Ka-band DRA Feeder



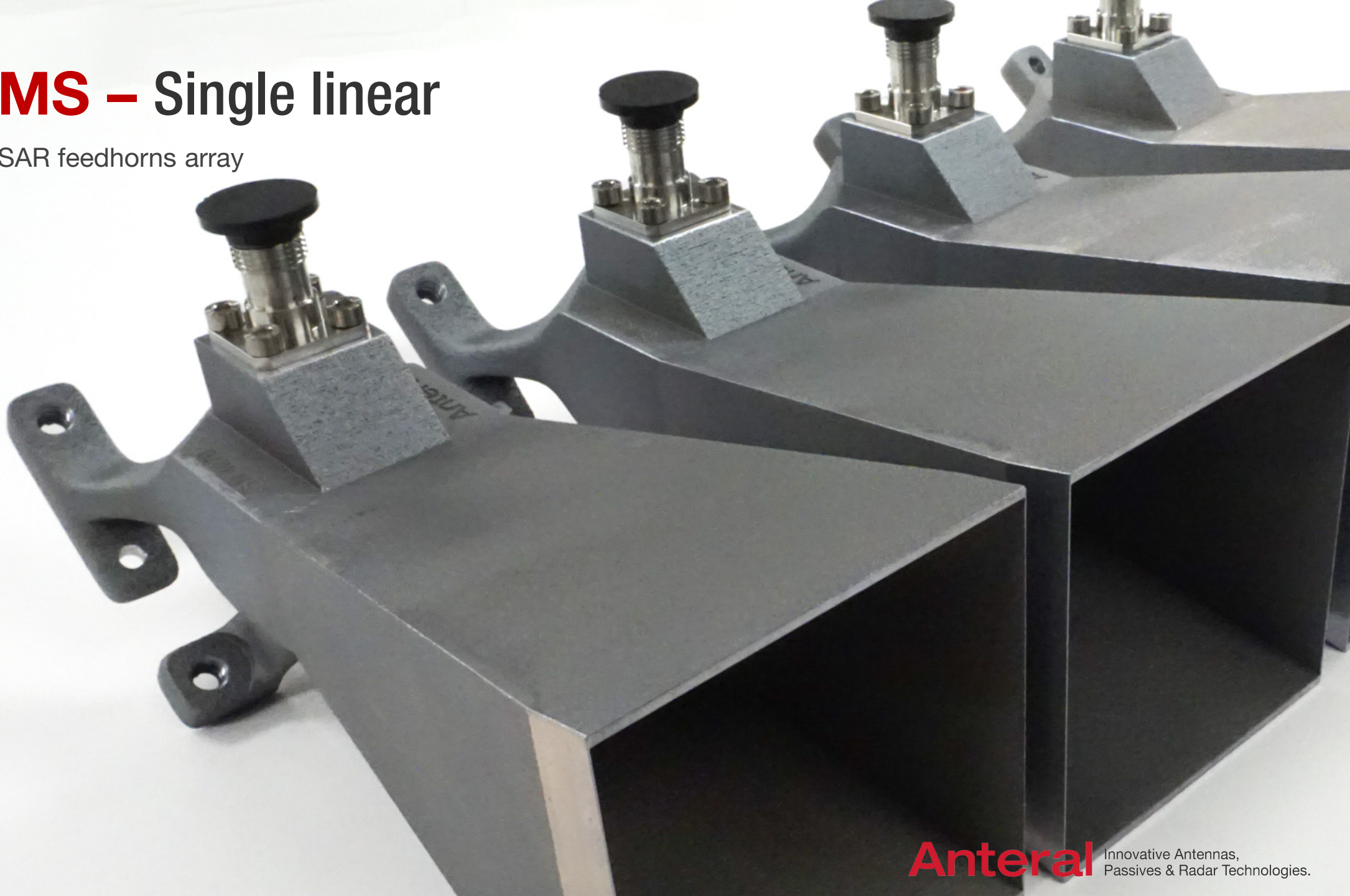
ALM DESIGN

X-band DRA Feeder



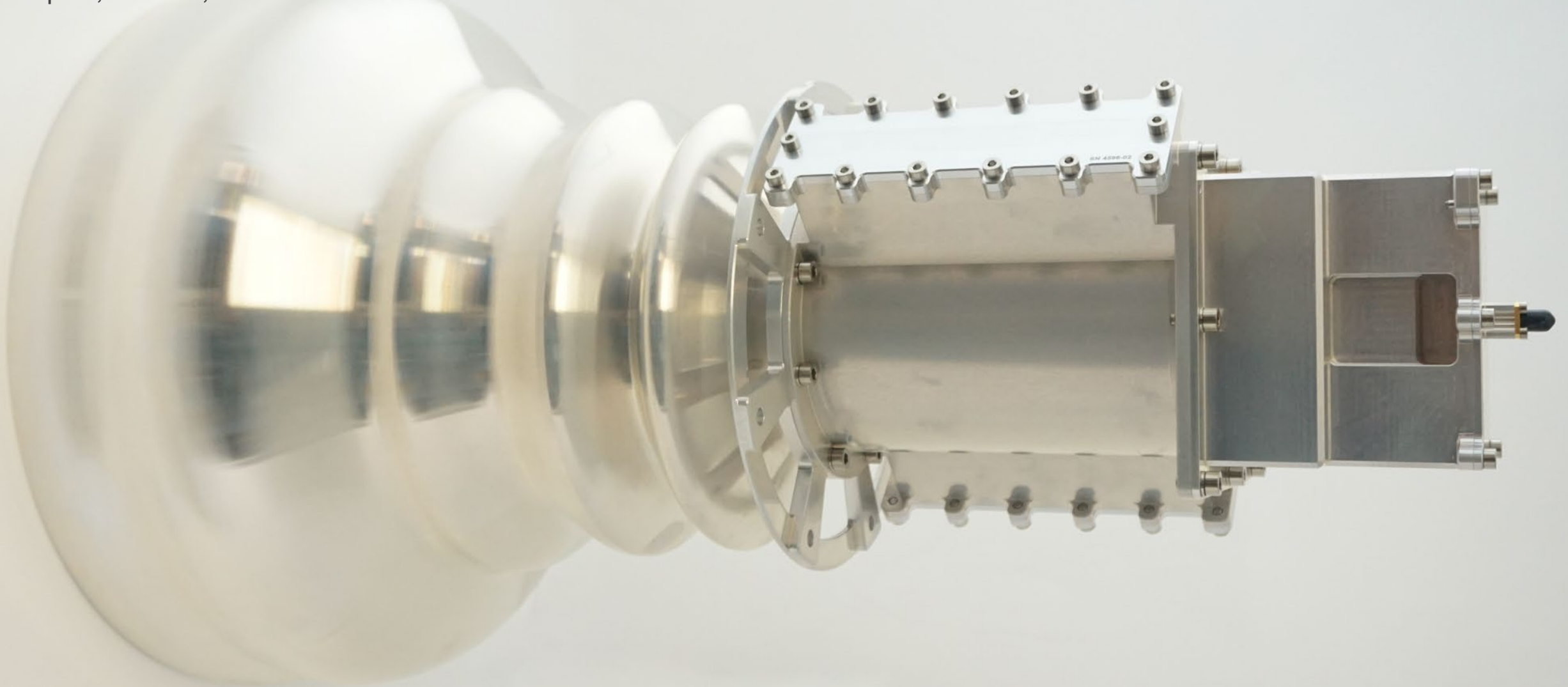
SYSTEMS – Single linear

1-port, C-band, SAR feedhorns array



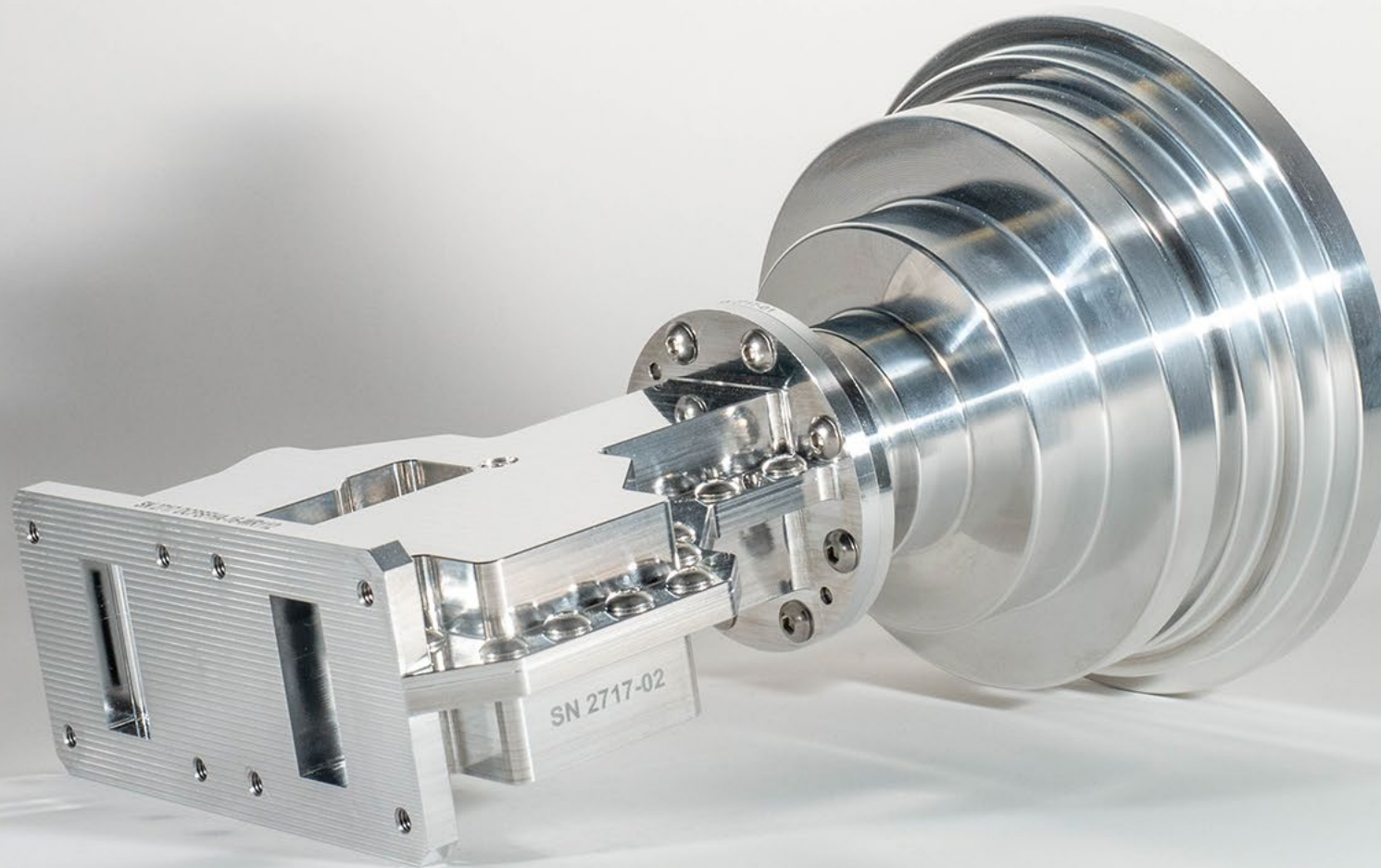
SYSTEMS – Single circular polarized antennas

1-port, S-band, Widebeam antenna



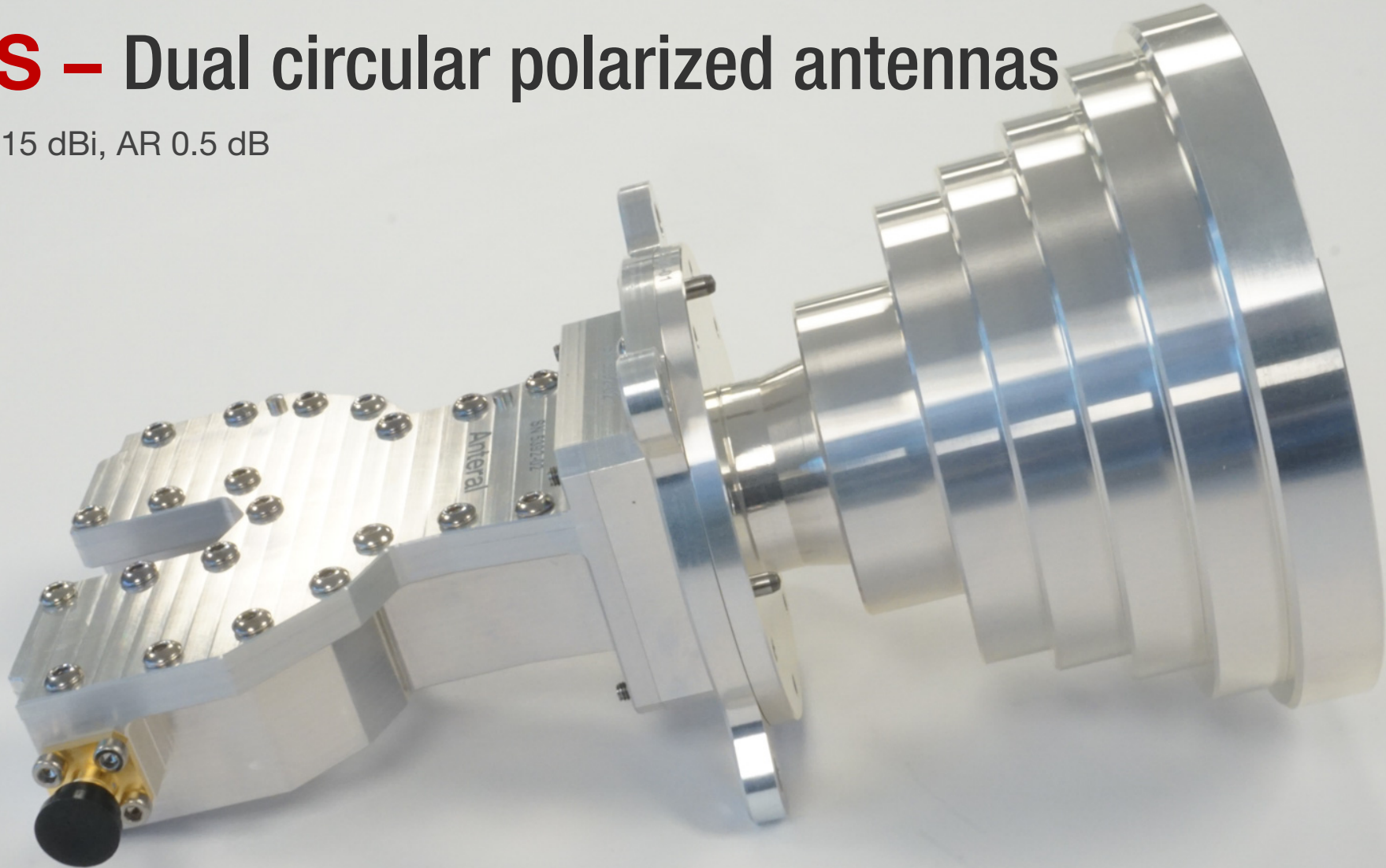
SYSTEMS – Dual circular polarized antennas

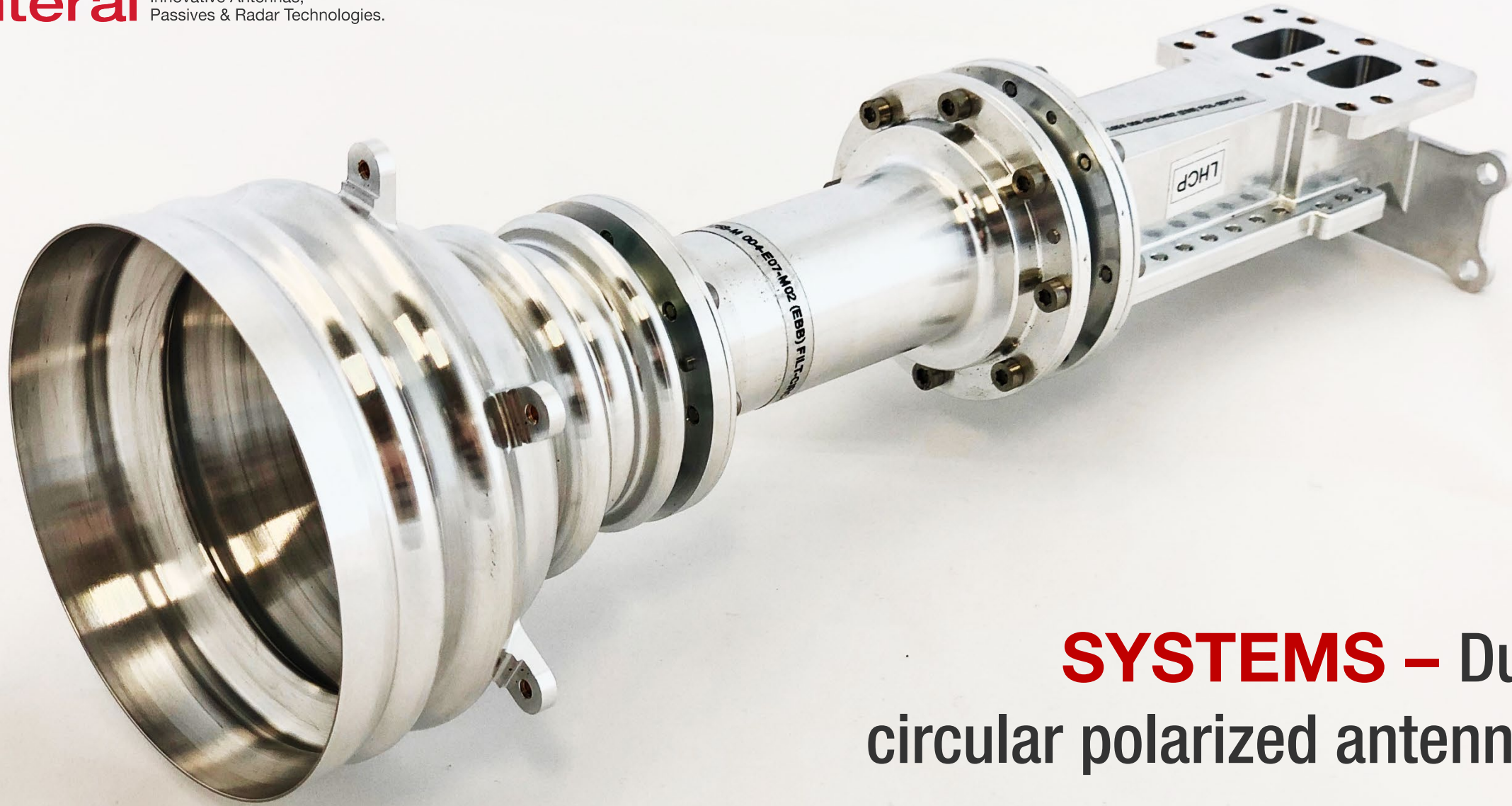
2-port, X-band, Gain 17 dBi, AR 0.5 dB, Isolation 70 dB



SYSTEMS – Dual circular polarized antennas

2-port, X-band, Gain 15 dBi, AR 0.5 dB

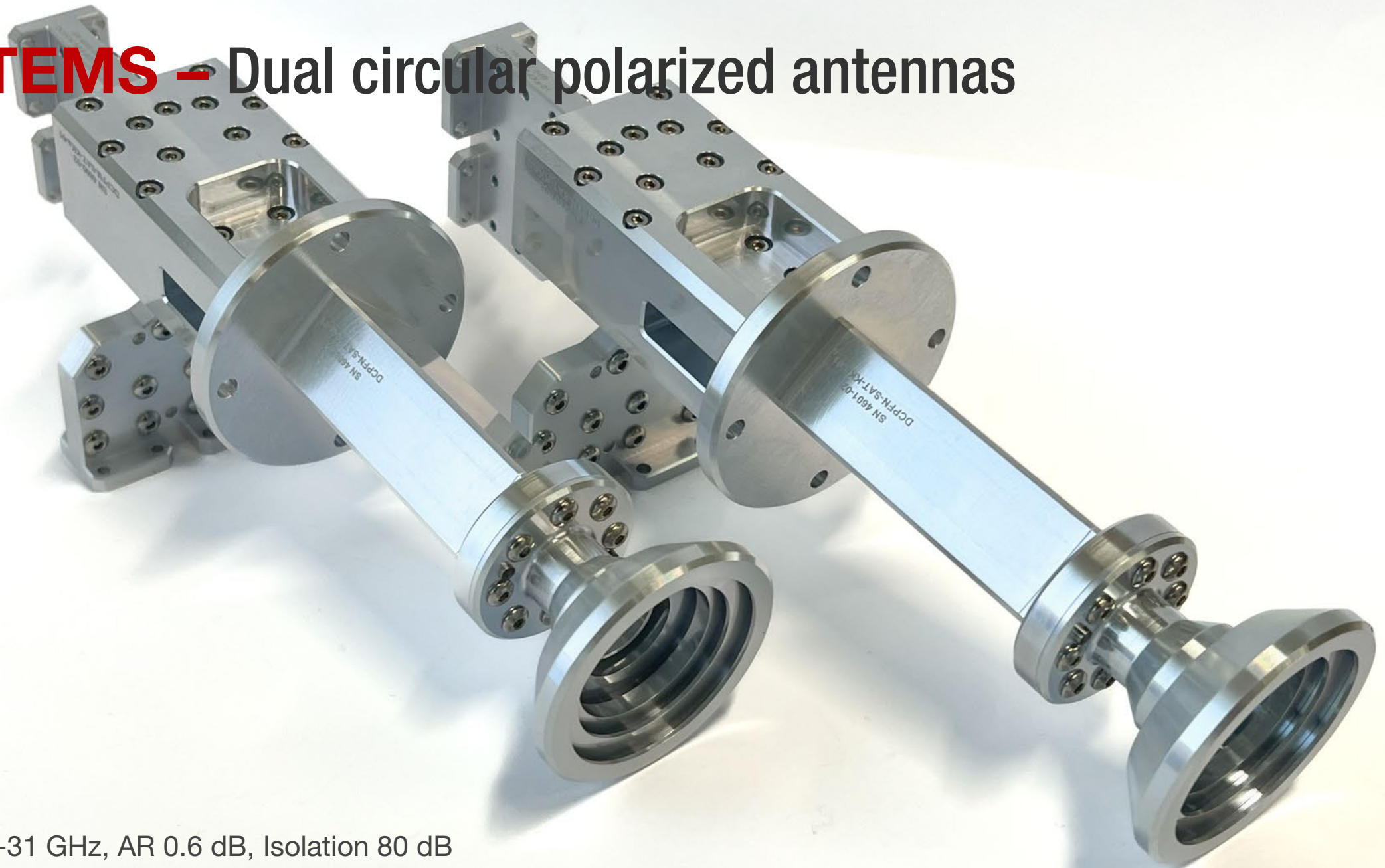




SYSTEMS – Dual circular polarized antennas

2-port, X-band, Gain 16 dBi, AR 0.25 dB

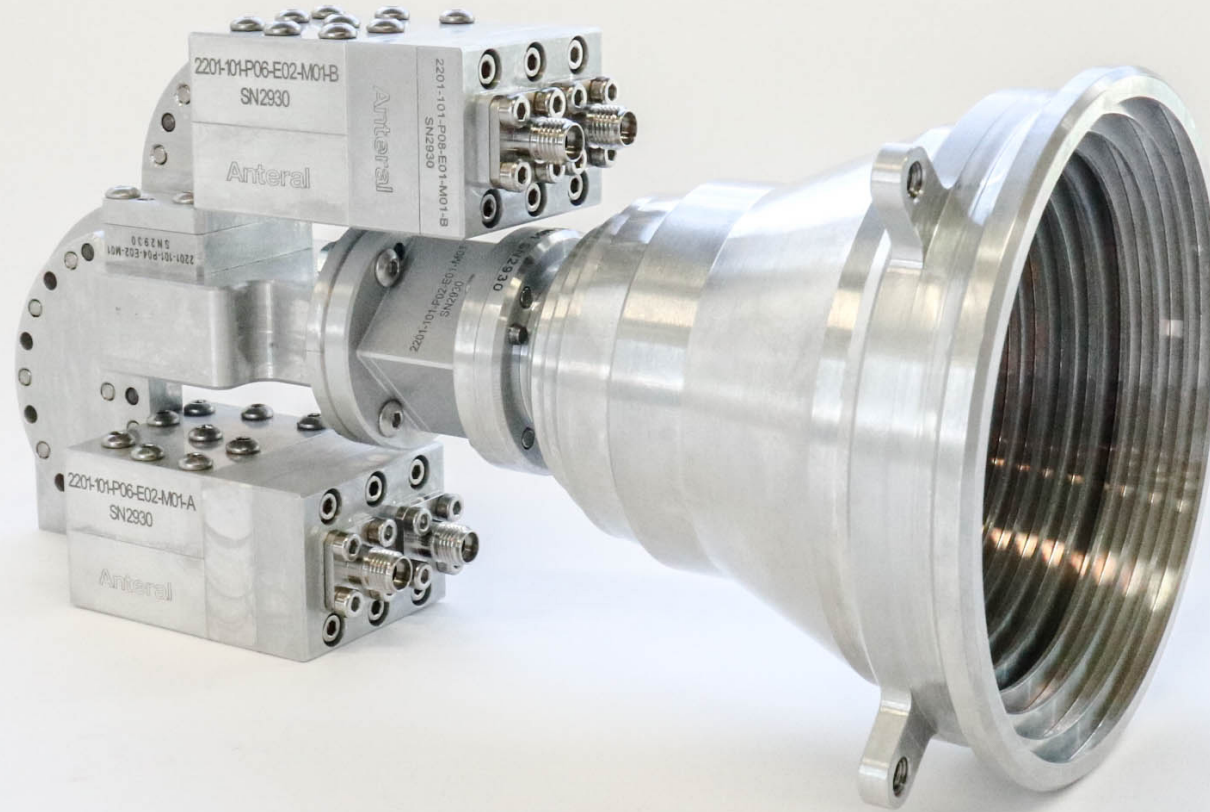
SYSTEMS – Dual circular polarized antennas



4-port, 17-31 GHz, AR 0.6 dB, Isolation 80 dB

SYSTEMS – Dual circular polarized antennas

4-port, K/Ka-band (17 – 31 GHz), Gain 21 dBi, AR 0.8 dB



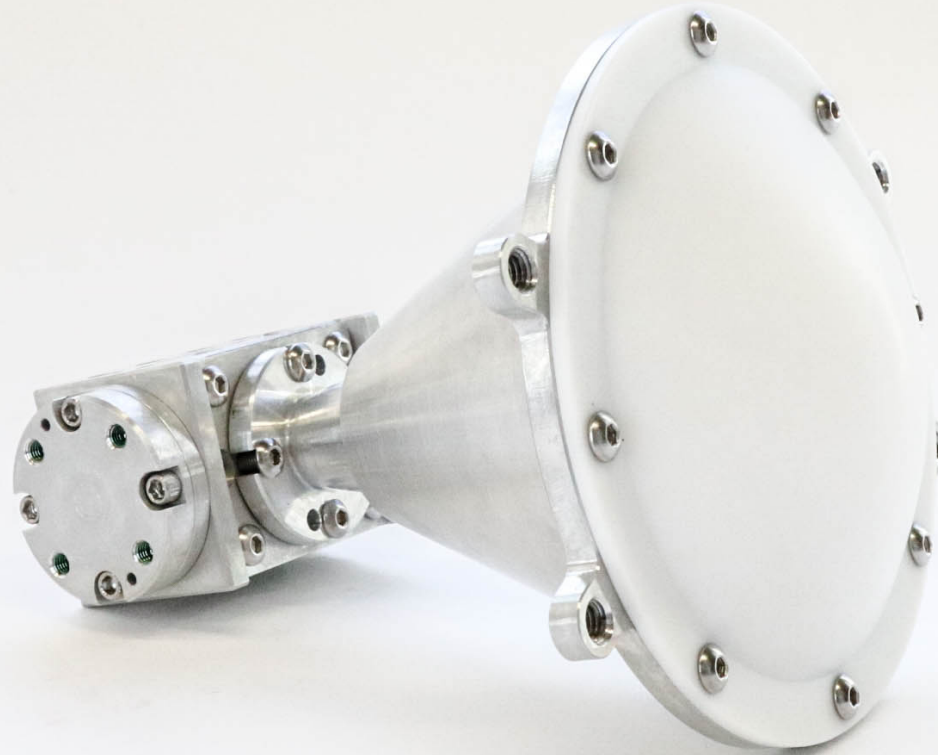
SYSTEMS – Dual circular polarized antennas



2-port, K-Ka-band, 14.5 dBi Directivity, AR < 1 dB, 230 g

SYSTEMS – Dual circular polarized antennas

2-port, Q-band, Gain 28 dBi, AR 0.3 dB



SYSTEMS – Dual circular polarized antenna

QV Band, 37.5-52.4 GHz, AR < 0.5 dB, 30 dB directivity



SYSTEMS – Dual circular polarized antenna

E-band, 71-86 GHz, AR <0.5 dB, 30.5 dB directivity

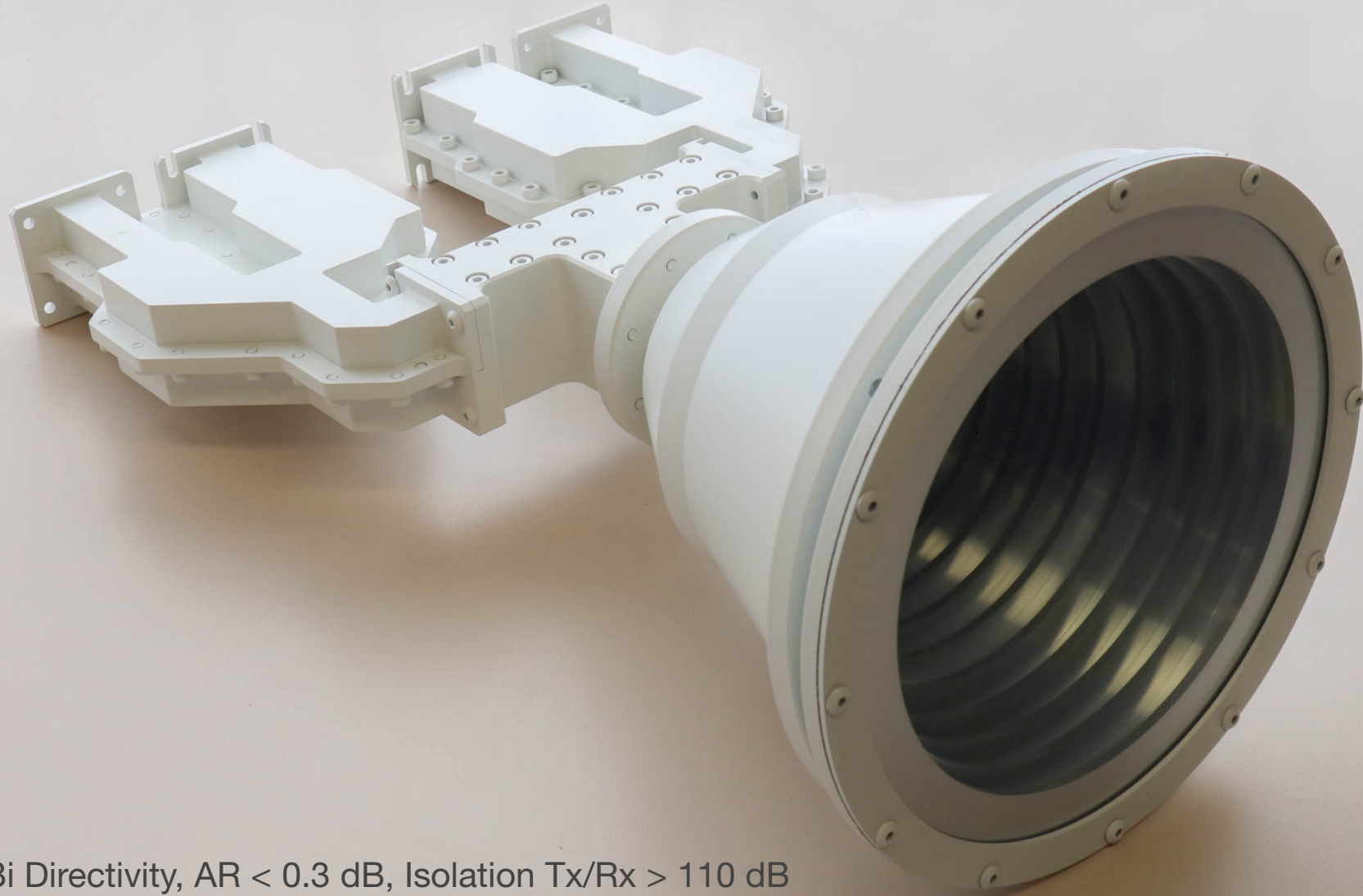


GND SYSTEMS – Dual circular polarized antennas

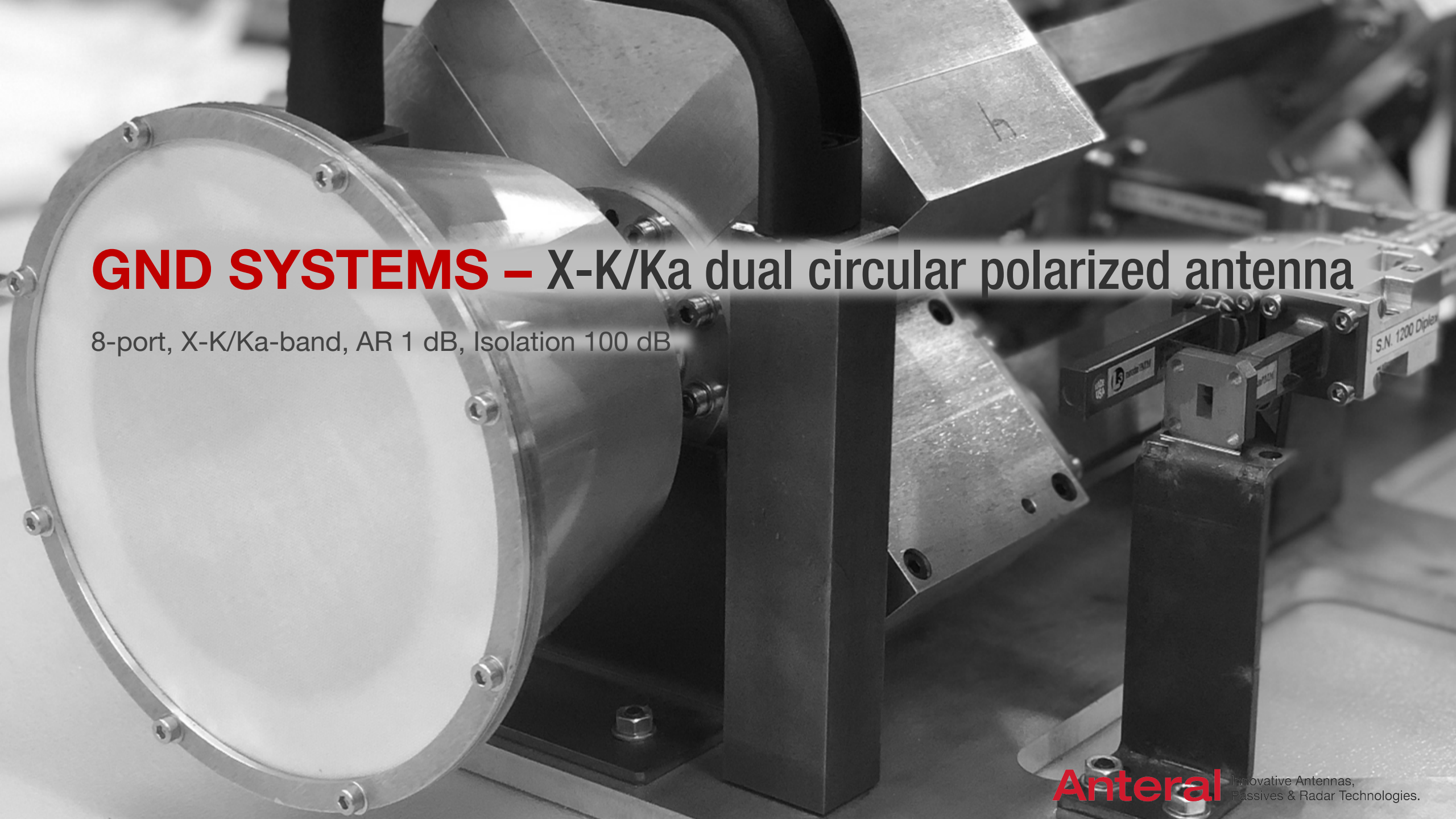


4-port, Ku-band, Gain 30 dBi, AR 0.5 dB, Isolation 100 dB

GND SYSTEMS – Dual circular polarized antennas



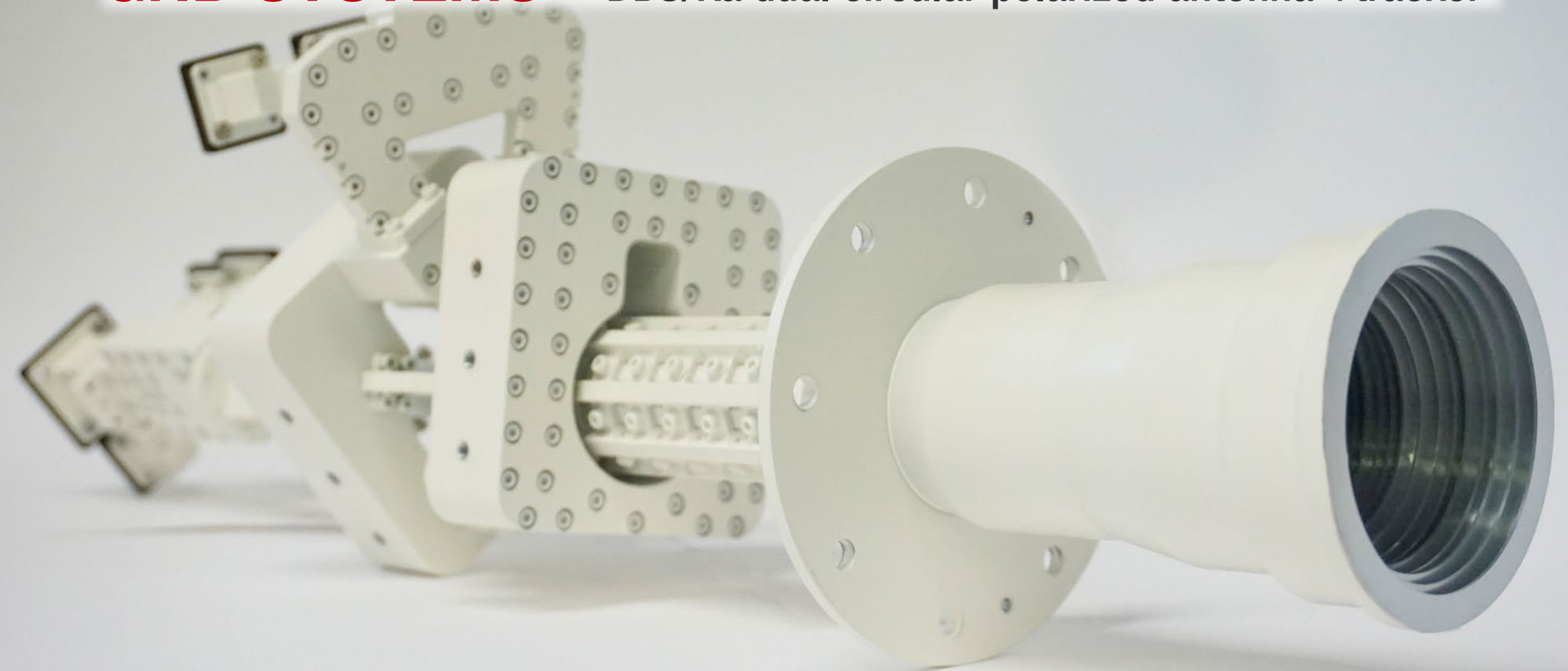
4-port, X-band, 20 dBi Directivity, AR < 0.3 dB, Isolation Tx/Rx > 110 dB



GND SYSTEMS – X-K/Ka dual circular polarized antenna

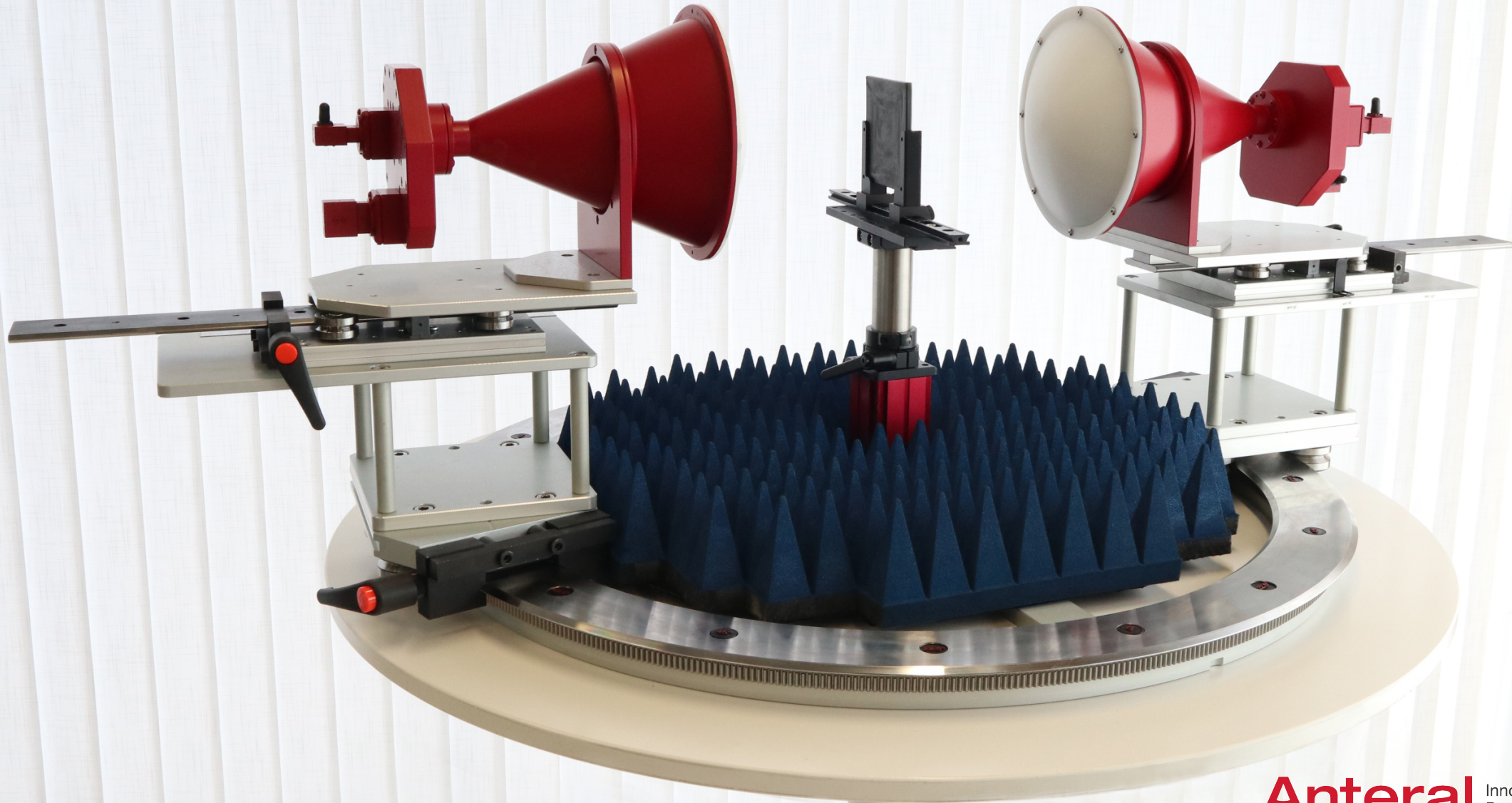
8-port, X-K/Ka-band, AR 1 dB, Isolation 100 dB

GND SYSTEMS – DBS/Ka dual circular polarized antenna +tracker



6-port, DBS/Ka-band, AR 0.5 dB, Isolation 110 dB

SYSTEMS – Material characterization



AD-HOC DESIGNS



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