

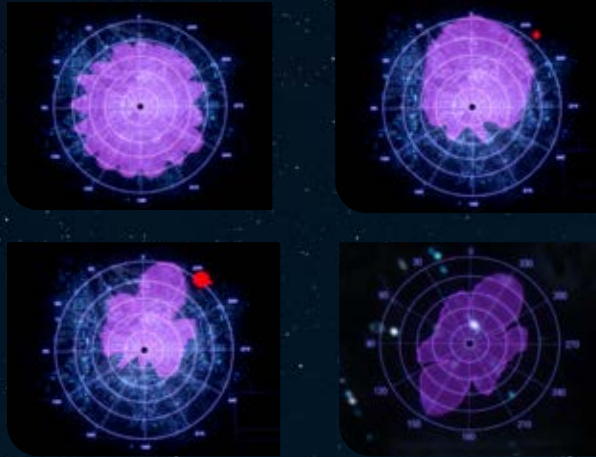
SUPERIOR PERFORMANCE TO COMMUNICATION NETWORKS, EW AND C-UAS SYSTEMS



STEERABLE BEAM TECHNOLOGY – How it works

COJOT Steerable Beam Antennas combine the features of different antenna types along with an integrated digital interface that allows the operator to select and switch between a pre-determined range of beam modes (omni, sharp, directed or wide beam) and their steering angle for both RX and TX.

COJOT SBAs fast beam steering capability of less than 1 microsecond makes this technology compatible with frequency hopping and many other short burst signals of interest.



Various beam options: omni, wide, sharp (directed) and simultaneous beams.

STEERABLE BEAM ANTENNAS

Superior performance to RF-Systems



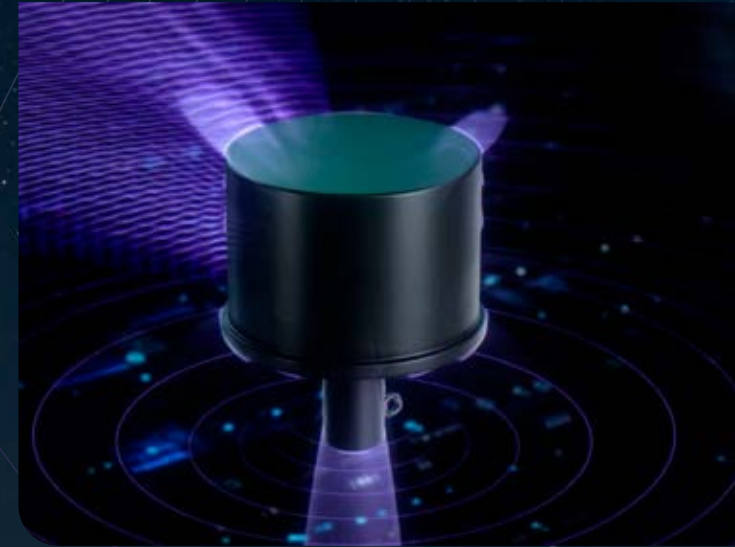
- ➔ Offers significant improvement in set up speed and automated link optimisation as part of MANET, MESH and other Point to MultiPoint networks.
- ➔ Define the direction of arrival (DoA) of drones and UAS through a simple analysis or a more detailed approach based on correlative analysis.
- ➔ Multi-Polarized versions are capable of supporting MIMO.

DIGITAL INTERFACE – How it's controlled

The control communication interface can use either fast RS-485/422 or simple Ethernet (TCP/IP). Both the RS-485 (RS422-like configuration) and Ethernet (10/100BaseT) are using two data pairs for full-duplex communication.

In addition, a power connection is needed carrying a regulated DC voltage of 12 or 19-32 VDC.

Establishing the beam steering control is made easy with comprehensive documentation and code examples. To get testing easily started, COJOT can provide necessary accessories and the Graphical User Interface for the control.



Defence Comms



Electronic Counter-measures



Counter-UAS



Electronic Warfare



VIP Protection

COJOT STEERABLE BEAM ANTENNA FAMILY

Perfect fit to next-generation RF-systems

Antenna	Typical Applications	Frequency range (band)	Power rating	Max. Gain (sharp)	Features & Variants
SBA1125B	EW	1160 - 2500 MHz (GNSS, WiFi)	Up to 100W	14 dBi	High Power (X), Small (-S)
SBA1327B	Comms	1350 - 2700MHz (Band III+/L)	Up to 100W	16 dBi	High Power (X), Small (-S), Dual-Polarized (-DP)
SBA2025B	Comms + EW	2.0 - 2.5 GHz (Band S)	Up to 100W	15 dBi	High Power (X), Small (-S), Dual-Polarized (-DP)
SBA2456DB	EW + Comms	2.4 - 2.5 GHz & 5.0 - 6.0 GHz (WiFi)	Up to 100W	15 dBi	Low-profile (-LP), Small (-S), High Power (X), High-Gain (-HG)
SBA4450B	Comms	4.4 - 5.0 GHz (Band IV/C)	Up to 100W	14 dBi	High Power (X), Dual-Polarized (-DP)
SBA1060B	EW	1.0 - 6.0 GHz (Wideband)	Up to 100W	14 dBi	High Power (X), Small (-S), Dual-Polarized (-DP)
SBA3438B	Comms	3.4 - 3.8 GHz (5G)	10W	14 dBi	Dual-Polarized (-DP)

Various integrated peripherals are available, like GPS as well as different sensors (accelerometer, gyroscope, magnetometer).

SBA2456DB-S



SBA2456DB-LP



SBA2456DB



SBA1060B



590 mm

Steerable Beam Antennas

COJOT Steerable Beam Antennas provide superior operability and advanced capabilities to Electronic Warfare and C-UAS applications as well as Communication Networks:

- ➔ Improved Coverage and LPI/LPD
- ➔ Different beam modes configurable, e.g. omni and wide as well as simultaneous beams in two different directions
- ➔ Support of MIMO through dual polarized versions
- ➔ Basic Direction Finding: DoA of unmanned aerial systems
- ➔ Simple and fast field-proven control protocol



Contact us

+358 9 452 2334

contact@cojot.alaris.tech

www.cojot.alaris.tech

Päivänkakkaranatie 10, FI-02270 Espoo, Finland

