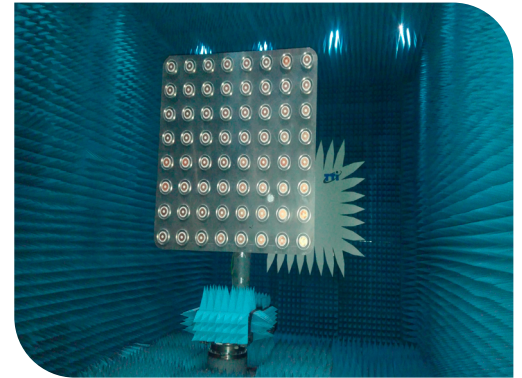


Flat Antenna Array for Galileo's MEOSAR System (MEGA)



NEW VERSION OF CELESTIA TTI MEOLUT ANTENNA FOR MULTI-BEAM ELECTRONIC TRACKING OF GALILEO SATELLITES FOR SAR SERVICE

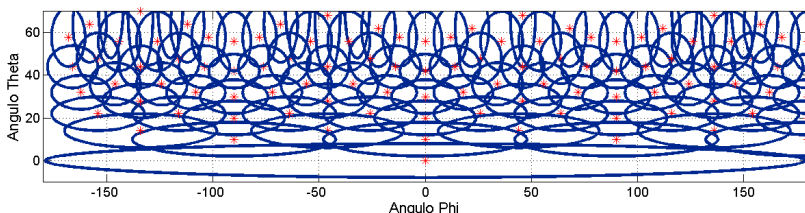
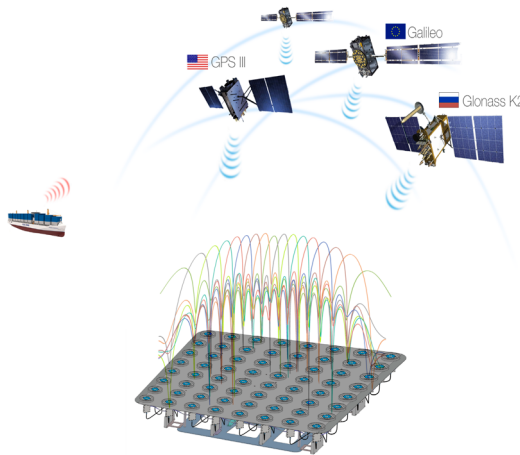


Coverage analysis SW

Celestia TTI can predict presence and pointing directions of beams given the array and feeding complex vector.

Radiating space fully covered from 0° (broadside) to 70° by means of 225 beams obtained simultaneously by processing (gain > 13 dBi):

- * 64 main beams (corresponding to 64 feeding vectors)
- * 161 secondary beams associated to main ones



mapping of the coverage - software

Advantages

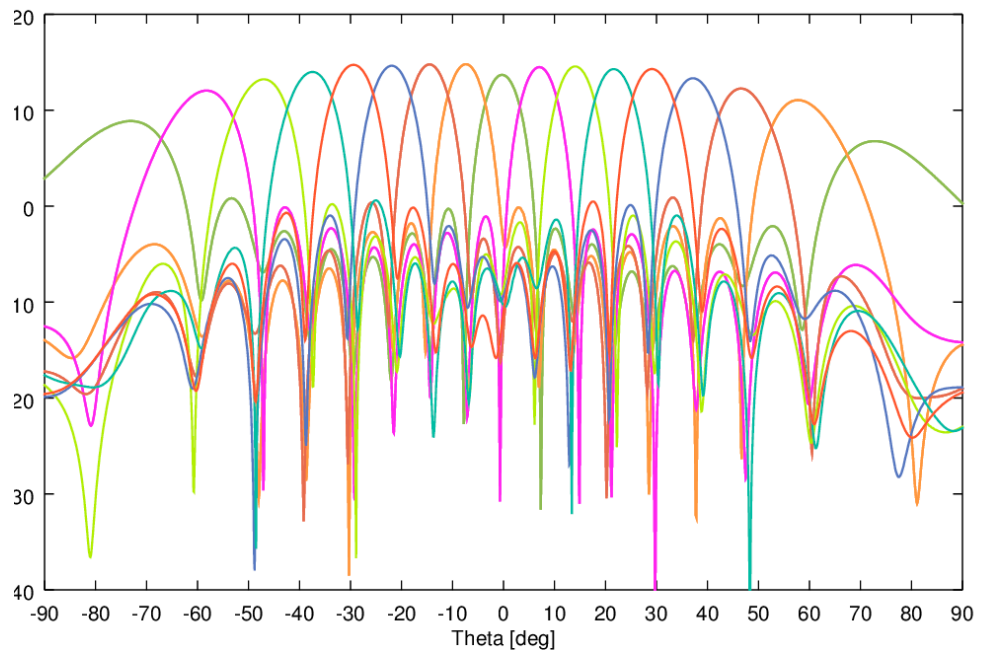
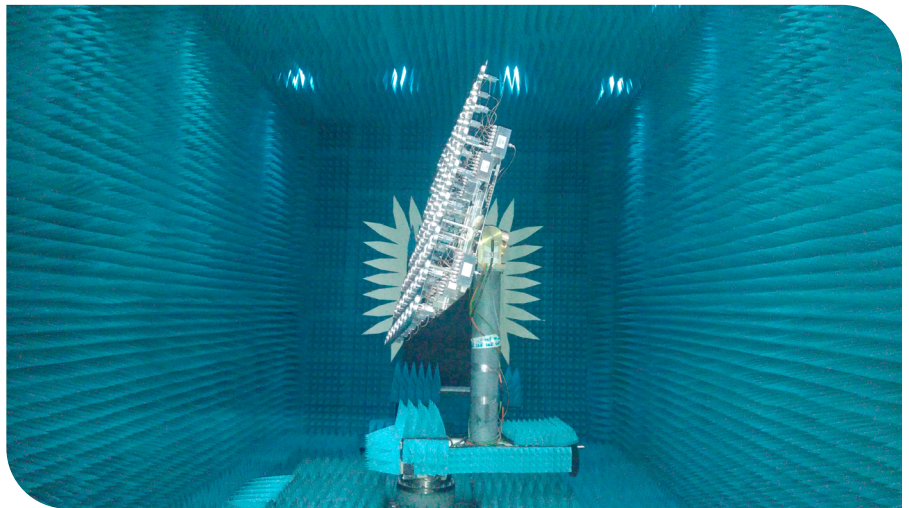
- * 4 MEOLUT dishes replacement
- * Planar antenna, zero moving no pointing needed
- * Full compatible with SAR systems from GNSS of Galileo, Glonass & GPS
- * Reception and processing up to 6 signals simultaneously
- * Improve throughput and localisation accuracy
- * Redundance and disponibility
- * Reliable, easy maintenance, no re-calibration

 **Technical specifications**

	Size	1.6 x 1.6 m
	Mass	<100 Kg
	Antenna elements	8 x 8
	Support compatibility	SAR/Galileo + DASS + SAR/GLONASS
No. of satellites simultaneously trackable		6+
Mechanical dynamics		Zero moving parts for ultimate system stability and resilience
	Gain	>13 dBi (min full coverage) 24 dBi
	Coverage	Continuous between 20° to 90°



Measurements in Cestia TTI anechoic chamber of eight different radiation patterns along a given plane



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Information contained in this document is subject to change without notice.

Unless otherwise specifications, tests have been done at 23 °C.