

KV-AJA1.1s

SINGLE-BAND ANTENNA ARRAY FOR AJ1 ANTI-JAMMING GNSS SYSTEM

- 4 element array
- Using for the simultaneous anti-jamming protection from multiple directions (up to 3)
- L1 band protection combined with AJ1.1 Anti-Jamming GNSS receiver
- Single enclosure system
- Easy and rapid to integrate in the unit
- Reduced size and weight



This is 4-elements Phased Array Antenna with frequency filtering at the antenna inputs and LNA on board. Antenna Array forms the core of the system, providing exceptional signal reception and transmission capabilities.

The Anti-Jamming function is achieved by using it combined with Kosminis Vytis Anti-Jamming GNSS receiver which includes an Anti-Jamming GNSS processor. Signals acquired by Array Antenna are digitized and processed with KV-AJ1.1 high dynamic range receiver after which the navigation signals or solution is resistant to jammers.

The antenna is built to withstand harsh environmental conditions and vibrations, ensuring reliable performance in various scenarios.

The antenna supports complex and separate use of GNSS systems, making it versatile in different operational contexts. The antenna is designed for future upgrades, including the potential addition of coverage in S - band frequency, as per user requirements.

TECHNICAL SPECIFICATION

Product code: KV-AJA1.Xs (1 - single-band option, X - GNSS signal options, s - small size)

Parameter	Description	Note
Frequency bands	<u>Option 1.1:</u> 1559 MHz -1609 MHz (L1)	
VSWR	< 2	
Ellipticity	< 3 dB	
LNA Gain	24 dB	
Power supply	3.3 V - 5 V	
Power consumption	0.75 W	typical
Dimensions (Ø x H)	Ø140 mm x 25 mm	
Weight	390 g	
Connectors (RF out + DC Power IN)	4x SMA Female	

CONTACTS

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