

KV-AJA2.x

DUAL-BAND ANTENNA ARRAY FOR AJ2 ANTI-JAMMING GNSS SYSTEM

- Dual-band multi constellation anti-jamming phase antenna array
- Dual-frequency solution: L1 / L2 / L5/ S can be used (consider specified options)
- 4 receive channels for each frequency band
- Dual-band protection combined with AJ2.x Anti-Jamming GNSS receiver
- Easy to integrate, ideal for retrofitting



This is 4-elements Phased Array Antenna with frequency filtering at the antenna inputs and LNA on-board. 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-AJ2.x high dynamic range receiver after which the navigation signals or solution is resistant to jammers.

A 4-element antenna array as part of the KV-AJ2 Anti-Jamming GNSS system allow gain pattern shapes to be changed in response to interference. Provides up to 3 independent nulls.

TECHNICAL SPECIFICATION

Product code: KV-AJA2.x (2 – Dual-band option, x – GNSS signal options)

Parameter	Description	Note
Frequency bands	Option 2.1: 1559 MHz - 1609 MHz (L1) 1215 MHz - 1254 MHz (L2)	
	Option 2.2: 1559 MHz - 1609 MHz (L1) 1164 MHz - 1214 MHz (L5)	
	Option 2.3: 1559 MHz - 1609 MHz (L1) 2480 MHz - 2510 MHz (S)	
	Option 2.4: 1164 MHz - 1214 MHz (L5) 2480 MHz - 2510 MHz (S)	
VSWR	< 2	
Ellipticity	< 3 dB	
LNA Gain	25 dB for each L-band 30 dB for each S-band	
Power supply	5 V	
Power consumption	1.5 W (typical)	Options 2.1, 2.2
	1.3 W (typical)	Options 2.3, 2.4
Dimensions (Ø x H)	Ø175 mm x 62.9 mm Ø175 mm x 33.5 mm	with block of connectors without block of connectors
Weight	1370 g	
Connectors (RF out + DC Power IN)	Option 2.1: 4x SMA Female (L1, L2) SMA Female - unused	
	Option 2.2: 4x SMA Female (L1, L5) 4x SMA Female - unused	
	Option 2.3: 4x SMA Female (L1) 4x SMA Female (S)	
	Option 2.4: 4x SMA Female (L5) 4x SMA Female (S)	

CONTACTS

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