

## KV-4AJ4.x-R0-A MULTI-BAND GNSS JAMMING SUPPRESSOR

- Quad-band GNSS jamming suppressor: 4 frequency bands simultaneously (consider specified options)
- Multi-system solution: GPS / Galileo / NavIC/ GLONASS/ BeiDou / QZSS can be used (consider specified options)
- Up-converter RF output for external GNSS receivers
- Up to 40 dB jammer suppression ratio
- Up to 100 dB J/S performance with external third party GNSS receiver
- Low power consumption: less than 11.0 W
- Support of up to 3 jammers simultaneously for each of frequency bands
- Receiver based on own NTLab's high-performance ASICs: RFFE, anti-jamming processors



The purpose of using the KV-4AJ4.x-R0-A GNSS jamming suppressor is to ensure stable reception of the navigation signal in conditions of staged interference. The jamming suppressor should be used with the KV-AJAx phased antenna array (see the antenna array description page). The rugged A-type enclosure is designed to work at the harsh environment and to meet requirements MIL-STD 810G and MIL-STD 461G.

Coupled with the use of a multi-band 4-element antenna array (the antenna can be provided by Kosminis Vytis), the quad-band solution allows to suppress interferences in up to 3 directions on 4 frequency plans simultaneously. This approach provides significantly higher protection against interference compared to single-frequency options.

The RF up-converter outputs the jamming-free cleared RF signal to external non-protected GNSS receiver to obtain Position, Velocity and Time (PVT).

## TECHNICAL SPECIFICATION

Product code: KV-4AJ4.x-R0-A (4AJ4- 4-channel quad-band GNSS jamming suppressor, x - GNSS signal option, R0 - RF output only, A - A-enclosure)

	Option <sup>(1)</sup> 4.1	Option <sup>(1)</sup> 4.2	Option <sup>(1)</sup> 4.3
GNSS signals	Galileo E1, E5a, E5b, E6 GPS L1, L5 BeiDou B1C, B2a, B2I, B2b, B3I NavIC L1, L5 QZSS L1, L5 SBAS L1, L5	GPS L1(C/A), L2, L5 Galileo E1, E5a BeiDou B1I, B2a GLONASS G1 NavIC L1, L5 QZSS L1, L5 SBAS L1, L5	GPS L1(C/A), L2 Galileo E1 BeiDou B1I GLONASS G1, G2 NavIC L1 QZSS L1 SBAS L1
Frequency band, MHz	E1, L1, B1C (1575.42±3.75) E5a, L5, B2a (1176.45±11.25) E5b, B2I, B2b (1207.14±11.25) E6, B3I (1278.75±11.25)	L1, E1 (1575.42±3.75) B1I (1561.098±3.75) L2 (1227,6±11.25) L5, E5a, B2a (1176.45±11.25) G1 (1602±7.5)	L1, E1 (1575.42±3.75) B1I (1561.098±3.75) L2 (1227,6±11.25) G1 (1602±7.5) G2 (1248.06±7.5)

Parameter	Description	Note
<b>Interference rejection:</b>		
Single interference Suppression	Up to 40 dB	For one CW signal of single jammer
	Up to 30 dB	For one AWGN signal of single jammer
Several interference Suppression (up to three)	Up to 32 dB	For one CW signal of each jammer
	Up to 23 dB	For one AWGN signal of each jammer
<b>Interference resistance Interference resistance (with external third party GNSS receiver):</b>		
Single jammer	Up to 100 dB (J/S)	
Several jammers	Up to 82 dB (J/S)	Up to three directions
Number of channels	4	For each frequency band
Operation mode	RF output	Jamming-free signal bands depending on option
Up-converter RF output	1 pc	
Supply voltage	12 V...36 V	24 V typical
Power consumption	< 11 W	Depending on option
Dimensions	208 mm × 165 mm × 52 mm	
Weight	1750 g	
Operating temperature <sup>(2)</sup>	-40 °C ...+71 °C	
Storage temperature	-40 °C ...+85 °C	
<b>Connectors:</b>		
RF	TNC 31-6111	
Power	24WA35PN	Circular MIL Spec Connector HERMETIC

(1) - other GNSS signals are available on request

(2) - (-40 + 85)°C extended temperature range is available on request

## CONTACTS

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Information is subject to change without notice.  
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