



EA91

GNSS Antenna

- Wideband dual-band multi-constellation satellite mode GNSS measuring antenna
- Excellent polarization axis ratio performance
- Excellent phase center performance
- Excellent anti-multipath jamming performance

The EA91 uses high-gain broadband antennas to receive GNSS signals covering GPS, GLONASS, Beidou, Galileo, QZSS, and L-Band. The EA91 uses the total symmetric distribution multi-stage of 3D choke-ring scheme with completely symmetric distribution for higher phase center stability and superior multi-path jamming performance, and it has excellent coincidence performance of phase center and mechanical center.

Product Specification

GNSS Performance		Specifications	
Satellite Tracked	GPS L1/L2/L5	Characteristic Impedance	50Ω
	GLONASS G1/G2/G3	VSWR	≤1.3:1
	Beidou B1/B2/B3	Phase Center Offset	±1.2mm
	Galileo E1/E2/E5/E6	Gain	≥5dBi @Axial
	QZSS L1/L2/L5		≥-3 dBi @ elevation angle 20°
	L-Band	Axial Ratio	≤2db @Axial
	(SBAS, WAAS, EGNOS, QZSS,		≤4 dB @ elevation angle 20°
	Gagan, MSAS, OmniStar and Atlas)	Out-Of-Roundness	≤1 dB @ elevation angle 20°
Physical		Front-To-Back Ratio	≥30dB
Dimensions	370mm diameter x 263mm high	Roll-Off Factor	≥13dB
Weight	7.7kg±100g	Noise Figure	1.6dB@25℃(typical)
Interface	TNC-F	LNA Gain	40±2dB (standard)
Antenna Housing Material	FRP	Operating Voltage	3.3-12VDC
Base Material	Magnalium	Operating Current	35mA (typical)
Thread	5/8-11UNC-2B	Environment	
		Operating Temperature	-55℃ ~ +85℃
		Storage Temperature	-55℃ ~ +90℃
		Humidity	100% non-condensing
		Water/Dust Proof	IP65, IP67 (inside)

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