

PRO-ANT

GNSS antenna



Description

PRO-ANT is a GNSS antenna with high-stable phase center. It can be mounted on a common pole (5/8"-11 thread). The antenna cable can be connected to a common TNC connector located on the bottom of the device. Ingress protection of the PRO-ANT antenna is IP68, it can operate and receive signals in extreme conditions.

Antenna PRO-ANT can receive signals of GPS, ГЛОНАСС, Galileo, BeiDou, IRNSS L5, WAAS, EGNOS, MSAS, GAGAN and QZSS systems.

Common technical properties:

Electrical properties

Antenna gain	5.0 dB typical (1551~1614 MHz) 4.0 dB typical (1164~1300 MHz)
Axial ratio output	3.0 dB max.
Impedance	50 Ohm
LNA gain	32±2 dB, 40±2 dB (optional)
Noise figure	1.7 dB (typical)
Input voltage	3.0~15.0 VDC
Current	25 mA (max.) @ 5 V 32 mA (max.) (40 dB LNA gain)
Power consumption	0.40 W 0.50 W (40 dB LNA gain)

Signals

Constellations	GPS L1/L2/L2C/L5, GLONASS L1/L2/L3, GALILEO E1/E2/E5ab/E6, BEIDOU B1/B2/B3, IRNSS L5 WAAS L1/L5, EGNOS, MSAS, GAGAN, QZSS L1/L2/L2C/L5/LEX
Frequency	1551~1614 MHz 1164~1300 MHz

Environmental properties

Operating temperature	-45 ~ +85 °C
Storage temperature	-50 ~ +85 °C
Ingress protection	waterproof, IP68

Physical properties

Antenna type	Microstrip, with 4 points
Dimensions	160 x 160 x 70 mm
Weight	600 g
Cable connector	TNC (female)
Mounting	5/8-11

