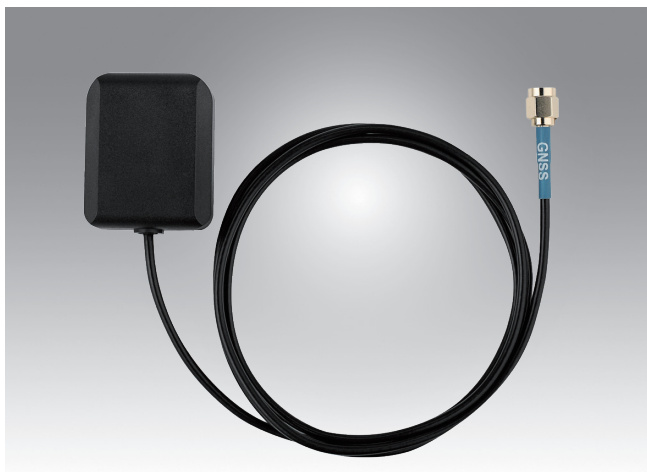


AIW-520

Active GNSS antenna with IP67 (Adhesive/Magnetic mount)



Features

- Active antenna
- IP67-rated
- GPS-L1: 1575.42 MHz/GLONASS-G1: 1589.0625 MHz/GALILEO-E1: 1575.42 MHz/BeiDou-B1/B1-2: 1561.098/1589.742 MHz
- SMA male connector
- Operating Temperature: -40 ~ 85°C

Specifications

Electrical Characteristics	Frequency	GPS-L1: 1575.42 MHz GLONASS-G1: 1589.0625 MHz GALILEO-E1: 1575.42 MHz BeiDou-B1/B1-2: 1561.098/1589.742 MHz
	Band Width	1559 – 1610 MHz
	Antenna Gain (GNSS test cable length: 1M)	0.4 dBi @ 1561 MHz 1.6 dBi @ 1575.42 MHz -0.4 dBi @ 1602 MHz
	Polarization	Circular (RHCP)
	Radiation Pattern	Directional
	Impedance	50 ohm
	Antenna Type	Patch
LNA	Gain	28 ± 3 dB @ 3.3V
	Noise Figure	1.5 Typ. @ 3.3V
	Filter Insertion Loss	10 dB Min
	Ex-band Attenuation	35 dB @ CF ± 50MHz / 50dB @ CF ± 100 MHz
	Supply Voltage and Current	3~3.3 V (± 3%)
	Current Consumption	9~ 2.5 mA @ 3.3V
Material & Mechanical Characteristics	Antenna dimension	44 x 35.2 x 15.6 mm ³ (with enclosure)
	Connector Type	SMA/MCX/FAKRA or others
	Setup	Adhesive/Magnetic mounting
	Material of Plastic	PC+ABS
	Antenna housing color	Black
	Cable Type	RG-174
	Weight	41g
Environmental	Operation Temperature	-40 ~ +85 °C
	Storage Temperature	-40 ~ +85 °C
	Relative Humidity	Up to 60 %
	Ingress Protection	IP67

Ordering Information

Part No.	Specifications
1751000667-01	Active GNSS Ant. ACT 1559-1610MHz, SMA/M, RG174, BLK, L1000mm, Adhesive mount

Suggested Cable

Part No.	Specification
1751000649-01	Coaxial Cable, 10cm, SMA female to IPEX4
1751000625-01	Coaxial Cable, 15cm, SMA female to IPEX4
1751000633-01	Coaxial Cable, 20cm, SMA female to IPEX4
1751000624-01	Coaxial Cable, 25cm, SMA female to IPEX4
1751000623-01	Coaxial Cable, 30cm, SMA female to IPEX4
1751000650-01	Coaxial Cable, 10cm, SMA female to IPEX1
1751000629-01	Coaxial Cable, 15cm, SMA female to IPEX1
1751000631-01	Coaxial Cable, 20cm, SMA female to IPEX1
1751000628-01	Coaxial Cable, 25cm, SMA female to IPEX1
1751000632-01	Coaxial Cable, 30cm, SMA female to IPEX1