

AI-16L116L5

Anti-Jamming Antenna

The AI-16L116L5 anti-jamming antenna supports simultaneous reception of L1 and L5 GNSS signals and performs anti-jamming processing for both bands. It can independently suppress multiple narrowband interferences and outputs clean signals after PVTT algorithm processing for L1 and L5 bands.



- **Frequency Bands:**
 - L1 Bandwidth: 1575 ±10 MHz
 - L5 Bandwidth: 1176 ±10 MHz
- **Performance:** High integration, low cost;
- **Power consumption:** ≤100 W

Specifications

Performance	Antenna Array Performance	VSWR: ≤ 2.0; Polarization: RHCP; Peak Antenna Gain: ≥ 2.0 dBi Coverage: Azimuth: 0–360°; Elevation: 0–90°
	LNA Performance	Gain: 25 dB ± 1 dB; Noise Figure: ≤ 2.5 dB; RF Input Power Limit: 10 W Out-of-Band Suppression: ≥ 50 dB @ f0 ± 50 MHz; VSWR: ≤ 2.0
	L1/L5 Anti-Jamming Performance	Single-Jammer Suppression: ≥ 100 dB 15-Jammer Suppression: ≥ 80 dB
	Antenna Output Power	–55~–75dBm
Physical	Power Supply and I/O Interface	MS3112E14–19P
	Dimensions	340*340*65mm
	Weight	≤8Kg
	Color	Gray
	Operating Temperature	–40 °C ~ +70 °C
Electrical	Storage Temperature	–40 °C ~ +85 °C
	Input : +20 ~ 32 V (typ. +28 V); Power consumption:	< 70 W

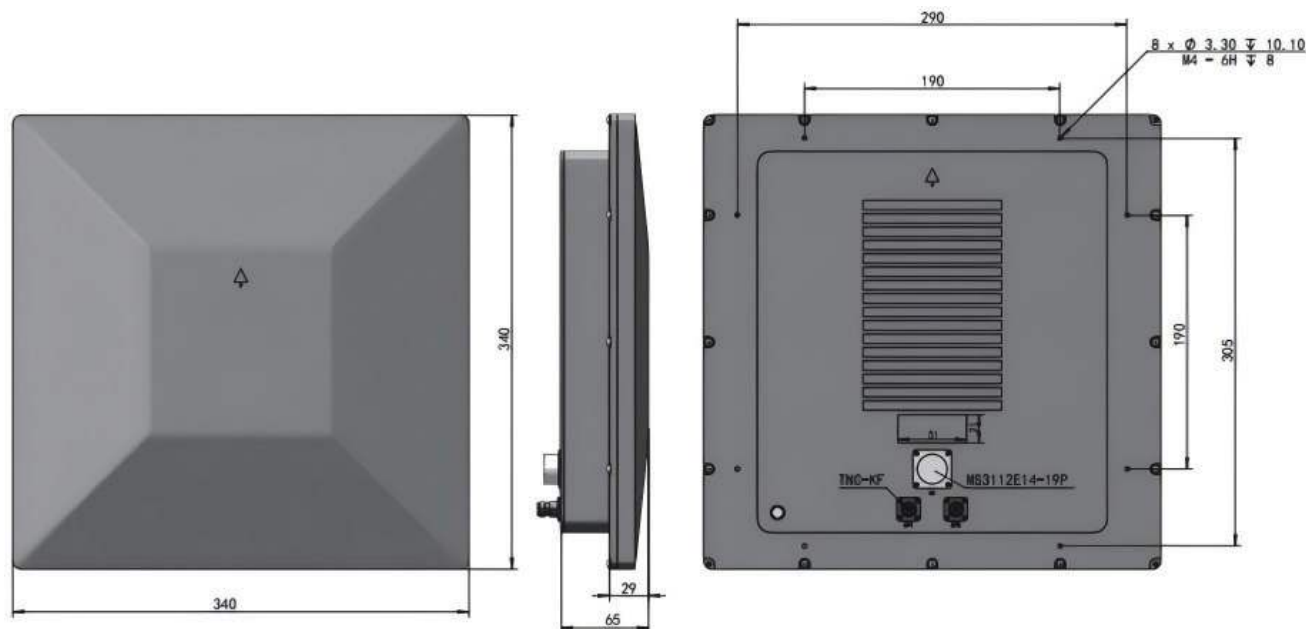
AI-16L116L5

Website

Social Media



Structural



Interfaces

X1: MS3112E14-19P Interface Definition

No.	Name	Remarks
1	Power Input	20V~32V
2	Power Input	20V~32V
3	Power Input	20V~32V
4	Power Ground	GND
5	Power Ground	GND
6	Power Ground	GND
7	TTL _Receive	RX _TTL
8	TTL _Receive	TX _TTL
9	Ground	GND
10	232 _Receive _L1	RX _232
11	232 _Transmit _L	TX _232
12	NC	NC
13	232 _Receive _L5	RX _232
14	232 _Transmit _L5	TX _232
15~19	NC	NC

X2, X3: TNC-KF (L1, L2 RF Output)