

User Manual for Four-Element Integrated GNSS Anti-Jamming Terminal

V1.0

1. Product Overview



This product is a GNSS navigation anti-jamming antenna featuring lightweight design, high integration, and strong anti-jamming capability. It is suitable for airborne and vehicle-mounted applications.

Main Features:

- Supported Frequency Bands: GPS-L1, BDS-B1, GLONASS-L1, GALILEO-E1
- Number of Interference Sources Supported:** Four-element anti-jamming array, capable of suppressing up to three interference sources from different directions
- Anti-Jamming Performance:** 105 dB for single interference source; 90 dB for three simultaneous interference sources

2. Specifications

No	Item	Technical Specifications	Remarks
1.	Receiving Frequency Bands	L1、B1、G1、E1	
2.	Anti-Jamming Frequency Bands	L1、B1、G1、E1	
3.	Number of Interference Sources	Up to 3 directions	
4.	Anti-Jamming Capability	single interference \leq 105dB、three interferences \leq 90dB	
5.	Output Interface	RS422	
6.	Power Supply Range	9Vdc \sim 50Vdc	
7.	Rated Power Consumption	\leq 12.5W (at 28 VDC, room temperature)	
8.	Weight	\leq 400g	
9.	Dimensions	130 \times 130 \times 17 (mm)	
10.	Operating Temperature	-40 $^{\circ}$ C \sim 60 $^{\circ}$ C	
11.	Storage Temperature	-55 $^{\circ}$ C \sim 85 $^{\circ}$ C	

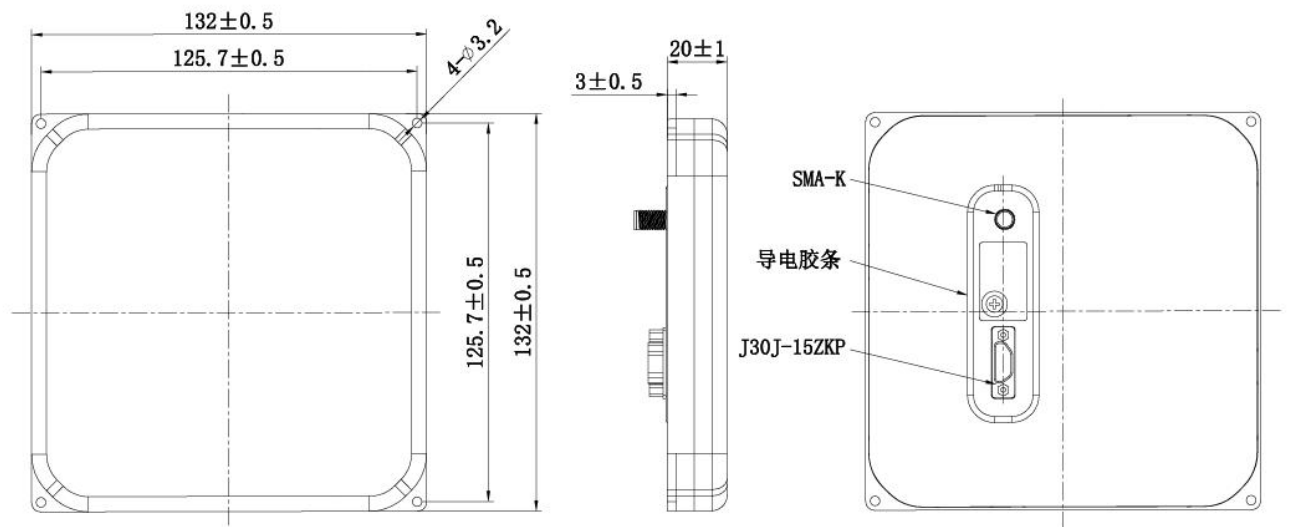
3. Structure

Dimensions: 130 mm \times 130 mm \times 17 mm (see the figure below for specific tolerances).

Weight: \leq 400 g

Overall dimensions: (Unless otherwise specified, dimensional tolerance is ± 0.3)

外形尺寸: (未注尺寸公差按 ± 0.3)



Outline and Mounting Hole Dimensions Diagram

4. Interfaces

RF Port: SMA-K

Socket Model: J30J-15ZKP

Matching Plug Model: J30J-15TJL AF250

Pin	Symbol	Direction	Function	Remarks
1	VIN+	Input	Power input	9Vdc~32Vdc
2	VIN+	Input	Power input	
3	VIN+	Input	Power input	
4	RS422_TXP	Output	Data interface 1 TX positive	RS422
5	RS422_TXN	Output	Data interface 1 TX negative	
6	RS422_RXP	Input	Data interface 1 RX positive	
7	RS422_RXN	Input	Data interface 1 RX negative	
8	GND	Ground	Signal ground	
9	VIN-	Input	Power ground	
10	VIN-	Input	Power ground	
11	VIN-	Input	Power ground	
12	Reserved	-	Reserved	
13	Reserved	-	Reserved	
14	Reserved	-	Reserved	
15	GND	Ground	Signal ground	

5. Precautions

- ◆ The bottom surface of the device serves as the heat dissipation area. During installation, it should be connected to a structure with good thermal conductivity.
- ◆ During device installation, conductive adhesive strips should be applied around

the J30J connector.