



AI-C8L18L5

Anti-Jamming Antenna



The AI-C8L18L5 anti-jamming antenna supports the reception of 8 channels of B1/L1 signals and 8 channels of L5 signals, with combined output after anti-jamming processing of B1/L1 and L5 frequency signals. The antenna effectively suppresses wideband, narrowband, multi-tone, single-tone, sweep, and pulse jamming at the B1/L1 and L5 frequencies. It includes a set of high-precision L1+L5 elements that provide dual-frequency high-precision signals for the receiver. It is mainly designed for vehicle-mounted low-cost applications and small-sized UAV platforms.

● Frequency Bands

B1/L1 Reception Bandwidth: $1568 \pm 10\text{MHz}$;

L5 Reception Bandwidth: $1176 \pm 10\text{MHz}$

● Performance

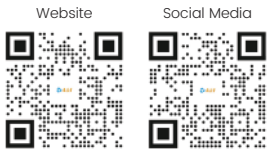
Dual-frequency high precision

Dual-frequency anti-jamming

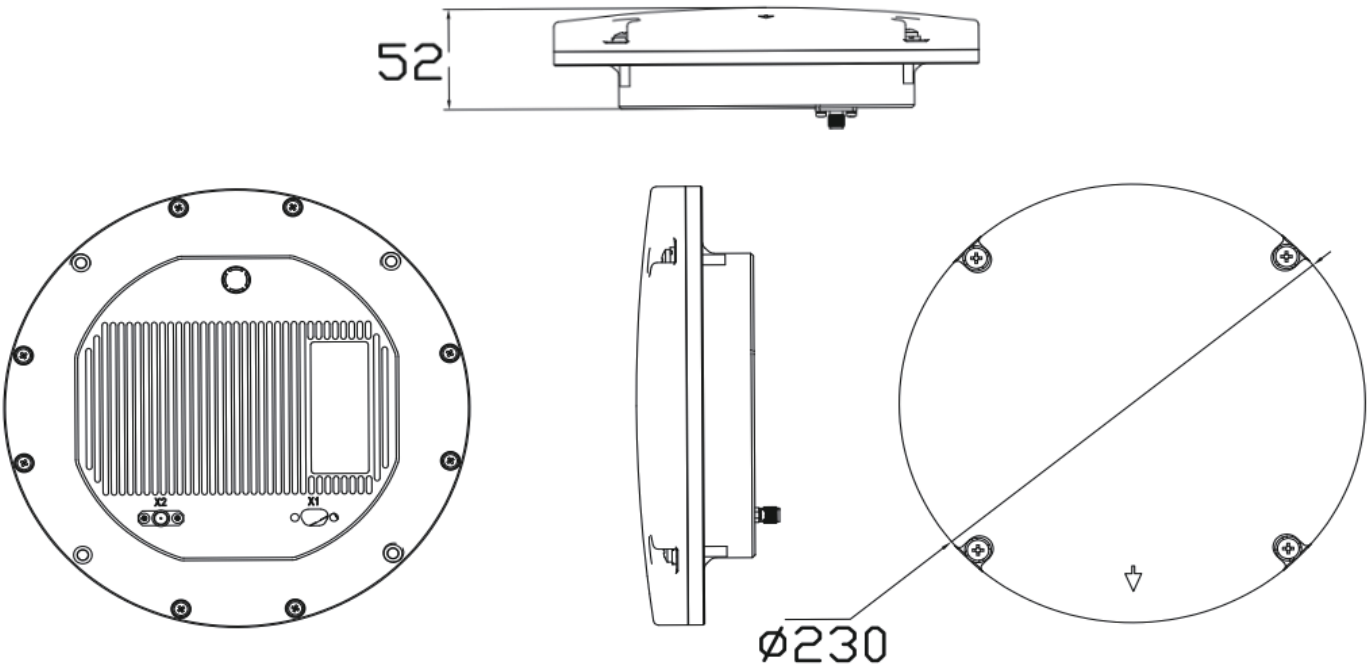
● Power Consumption: $\leq 29\text{W}$

— Specifications

Performance	B1/L1 Anti-jamming Performance	Single-Jammer Suppression: $\geq 110\text{dB}$; 3-Jammer Suppression: $\geq 95\text{dB}$ 6-Jammer Suppression: $\geq 90\text{dB}$; 7-Jammer Suppression: $\geq 85\text{dB}$
	L5 Anti-jamming Performance	Single-Jammer Suppression: $\geq 105\text{dB}$; 3-Jammer Suppression: $\geq 90\text{dB}$ 6-Jammer Suppression: $\geq 80\text{dB}$; 7-Jammer Suppression: $\geq 75\text{dB}$
	Antenna Output Power	-50~-70dBm
	Power Supply and I/O Interface	J30J-9ZK
Physical	Dimensions	230*230*52mm
	Weight	1400g $\pm$ 20g
	Color	Gray
	Operating Temperature	-40 C ~ +85 C
Electrical	Storage Temperature	-55 C ~ +85 C
	+9~32V (default +24V) input, power consumption less than 29W	



Structural



Interfaces

X1: J30J-9ZK Interface Definition		
No.	Name	Remarks
1	Power Input	+9V~+32V
2	Power Input	+9V~+32V
3	Power Ground	GND
4	Power Ground	GND
5	232 Receive	RXD
6	232 Transmit	TXD
7	NC	NC
8	NC	NC
9	NC	NC
X2: SMA - K (RF Output)		