

HT-FN-G2 GPS positioning and orientation System Introduction

HT-FN-G2 positioning direction finder device is a directional satellite navigation and positioning products. Compass and GPS equipment is mainly composed of a dual system, of which the Beidou system RNSS B1 receiving frequency, GPS L1 frequency, can be set to operate from a single GPS, and a combination of single Beidou positioning three operating modes, providing positioning and orientation information.

Technical Parameters

Performance		
The main function		
1 BD-2 with a single positioning system, GPS positioning system alone, BD-2 + GPS positioning function combination; 2 BD-2 with a single directional system, GPS system of single directional, BD-2 + GPS positioning and orientation combination.		
Positioning Indicator	Positioning mode	The default mode is a combination of BD-2 + GPS positioning. BD-2 can be switched by a single command system, GPS system or a single BD-2 + GPS positioning combinations.
	positioning accuracy	Horizontal accuracy: 7.5m (1 σ) Vertical accuracy: 10m (1 σ)
Directional Indicators	Directional mode	The default mode is a combination of BD-2 + GPS orientation, if a satellite to the satellite tracking system does not, then automatically BD-2 alone or GPS orientation. BD-2 can be switched by a single command system, GPS system or a single BD-2 + GPS combination Orientation

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	Orientation accuracy	<ul style="list-style-type: none"> 1 BD-2 and GPS hybrid orientation accuracy <ul style="list-style-type: none"> a) 0.15 ° / 2-meter antenna spacing (90s) b) 0.1 ° / 2-meter antenna spacing (120s) 2 GPS accuracy alone Orientation <ul style="list-style-type: none"> a) 0.15 ° / 2-meter antenna spacing (90s) b) 0.1 ° / 2-meter antenna spacing (120s) 3 BD-2 alone directional accuracy <ul style="list-style-type: none"> a) 0.2 ° / 2-meter antenna spacing (90s) b) 0.15 ° / 2-meter antenna spacing (120s)
Cold start time		<ul style="list-style-type: none"> 1 Positioning cold start time ≤60s 2 directional cold start time ≤120s
Reacquisition Time		<ul style="list-style-type: none"> 1 Location reacquisition time ≤3.5s (unlock 5s) 2 directional reacquisition time ≤20s (unlock 5s)
reliability		Mean time between failures: MTBF≥30000h
Communication parameters		
Data interface		RS232 serial port
RF interface		SMA Interface
Baud Rate		4800/9600
Electrical		
Input voltage		DC5V +/-0.2V
Power		<3W (does not include the antenna power supply)
Environmental indicators		
temperature		<ul style="list-style-type: none"> 1 Operating temperature: -40 °C ~ + 75 °C 2 Storage temperature: -45 °C ~ + 85 °C

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Heat	Temperature: + 40 °C Relative Humidity: 95% ± 3% storage time: 48h
Physical indicators	
size	150*118*41.5mm