

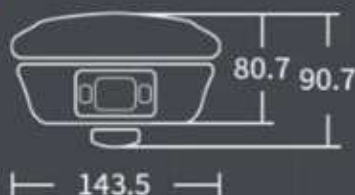
RTK

RSat 3 (ROBUST)

CHARACTERISTIC

- 32GB, user storage space 24GB
- Quick positioning function
- Built-in 5W Radio
- 1408 channels
- Centimeter level
- 4G+WIFI+BT+NFC
- Combined antenna
- LCD display
- Longer endurance
- Linux intelligent system

SIZE (mm)



CONTACT US



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RSat 3 GNSS Receivers

ITEM		SPECIFICATION	REMARKS
HARDWARE SYSTEM		ARM Cortex-A7 1.8GHz	
OS		Linux	
GNSS	GPS	L1C/A, L1C, L2P(Y), L2C, L5	
	GLONASS	L1, L2, L3	
	BDS	B1I, B2I, B3I, B1C, B2a, B2b	
	GALILEO	E1, E5a, E5b, E6	
	QZSS	L1, L2, L5	
	SBAS	L1	
	NavIC (IRNSS)*	L5*	
	Channel	1408	
	Data format	NMEA-0183	
	Correction I / O Protocol	RTCM3.X	
	Data update frequency	20Hz(max)	
	Recapture Time	<1s	
	Cold Boot	<40s	
POSITIONING ACCURACY	Single (RMS)	Horizontal: 1.5m Vertical: 2.5m	
	DGPS(RMS)	Horizontal: 0.4m Vertical : 0.8m	
	RTK(RMS)	Horizontal: $\pm(8\text{mm}+1\text{ppm})$ Vertical: $\pm(15\text{mm}+1\text{ppm})$	
	Time Accuracy (RMS)	20ns	
	Static Accuracy (RMS)	Horizontal: $\pm(2.5\text{mm}+0.5\text{ppm})$ Vertical: $\pm(5\text{mm}+0.5\text{ppm})$	
	Speed Accuracy (RMS)	0.03m/s	
	Tilt compensation Accuracy(within 60°)	$\leq 2\text{cm}$	
SYSTEM	Bluetooth	BR+EDR+BLE	
	WIFI	802.11 b/g/n	
	Network	LTE FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28 LTE TDD: B38/39/40/41 WCDMA: B1/2/4/5/6/8/19 GSM: B2/3/5/8	
	Data Radio	Frequency: 410~470MHz Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT RF transmit power: 1W/2W/5W Air baud rate: 9600 / 19200bps	
	Storage	32GB Storage	
DISPLAY	LCD	Screen size: 1.3inch Display mode: TFT Display format: 240*RGB*240 View Angle: FULL	
BATTERY	Battery	7.4V, 6500mAh	
	Work time	More than 18 hours (Typical, Rover, GSM)	The static working mode supports continuous data collection for 26 hours under full power

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RSat 3 GNSS Receivers

	Charge	USB PD 15V/2A 5V/3A	Support fast charging adapter and adaptively and dynamically adjust charging current
ENVIRONMENTAL	Work Temperature	-20℃~+60℃	
	Storage Temperature	-40℃~+85℃	
	Shock	Withstand 1.5M pole drop	
	Protection	IP68	
PHYSICAL	Material	Magnesium alloy main body, ABS/PC top cover	
	Dimension	Φ143.5mm*90.7mm	
	Weight	≤0.90kg	
A FULL SET	RSat 3 Device	1SET	
	USB power adapter	1PCS	
	Type-C to Type-C	1PCS	
	Radio Antenna	1PCS	
CERTIFICATION	Regulatory Compliance	CE、FCC 	

▲ Manufacturers may update parameters at any time, please refer to the latest product information.

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RSat 3

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NO NEED BASE
NO NEED RADIO
NO NEED 4G



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RSat 3 ROBUST MULTI-FREQUENCY RTK DGPS (GNSS)

Characteristic

- 1408 channels
- 32GB, user storage space 24GB
- Centimeter level
- 4G+WIFI+Bluetooth
- Adjustable power
- Combined antenna
- LCD display
- 5W Radio, transmission distance maximum 16KM
- Linux intelligent system

*Size*_(mm)

