

Technical Specification

Platform	Hardware	Qualcomm MDM9x07 Cortex-A7
	System	Linux
GNSS Signal ^②	Channel	1408
	BDS	B1I, B2I, B3I, B1C, B2a, B2b*
	GPS	L1 C/A, L1C*, L2P(Y), L2C, L5
	GLONASS	L1, L2, L3*
	GALILEO	E1, E5a, E5b, E6*
	QZSS	L1, L2, L5, L6*
	SBAS	L5*
	NavIC(IRNSS)*	L1, L2, L5
	L-band	B2b PPP (Only for the Asian-Pacific Region)
	Data Format	CMR, CMR+, RTCM2.X, RTCM3.X
	Data Output	NMEA-0183, RINEX, GNS
	Data Updating Rate	5Hz
	Time to Recapture	<1s
Cold Start	<40s	
Positioning Performance	Single Point Positioning (RMS)	Horizontal: 1.5m Vertical: 3.0m
	DGPS (RMS)	Horizontal: 0.4m Vertical: 0.8m
	Real Time Kinematic (RMS)	Horizontal: ±(8mm+1×10 ⁻⁶ ·D) Vertical: ±(15mm+1×10 ⁻⁶ ·D)
	Speed Accuracy (RMS)	0.03m/s
	Static Accuracy (RMS)	Horizontal: ± (2.5mm+0.5·6·D) Vertical: ± (5mm+0.5·6·D)
	Time Accuracy (RMS)	20ns
	Tilt Compensation Accuracy(up to 60°)	≤2cm
Communication	Bluetooth	V2.1+EDR/V4.0 Dual Mode
	WiFi	802.11 a/b/g/n/ac
	Cellular	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
	Storage	Built-in 32GB
	Internal Radio	Transmitting power: 5W(37±1dBm) 1W(30±1dBm)
		Frequency: 410~470MHz
Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT Air Baud Rate: 9600, 19200		
Battery	Specifications	7.4V, 6500mAh lithium-ion Rechargeable Battery
	Operating Times	RTK Rover: Up to 20 hours (Typical Power Consumption) Static: Up to 26 hours (Typical Power Consumption)
	Charging	Support USB PD 15V/2A Support 5V/3A (Support Quick Charging Adapter)
Environment	Operating Temperature	-20°C~+70°C
	Storage Temperature	-40°C~+85°C
	Anti-seismic	2m Pole Drop Onto Concrete
	Dust & Waterproof	IP68
Physical	Material	Magnesium-alloy Casing + ABS/PC Plastic Top Cover
	Dimensions	Φ143.5mm*90.7mm
	Weight	≤0.9kg

1. *This information is for reference only. The product parameters are subject to changes due to product upgrading without notice.

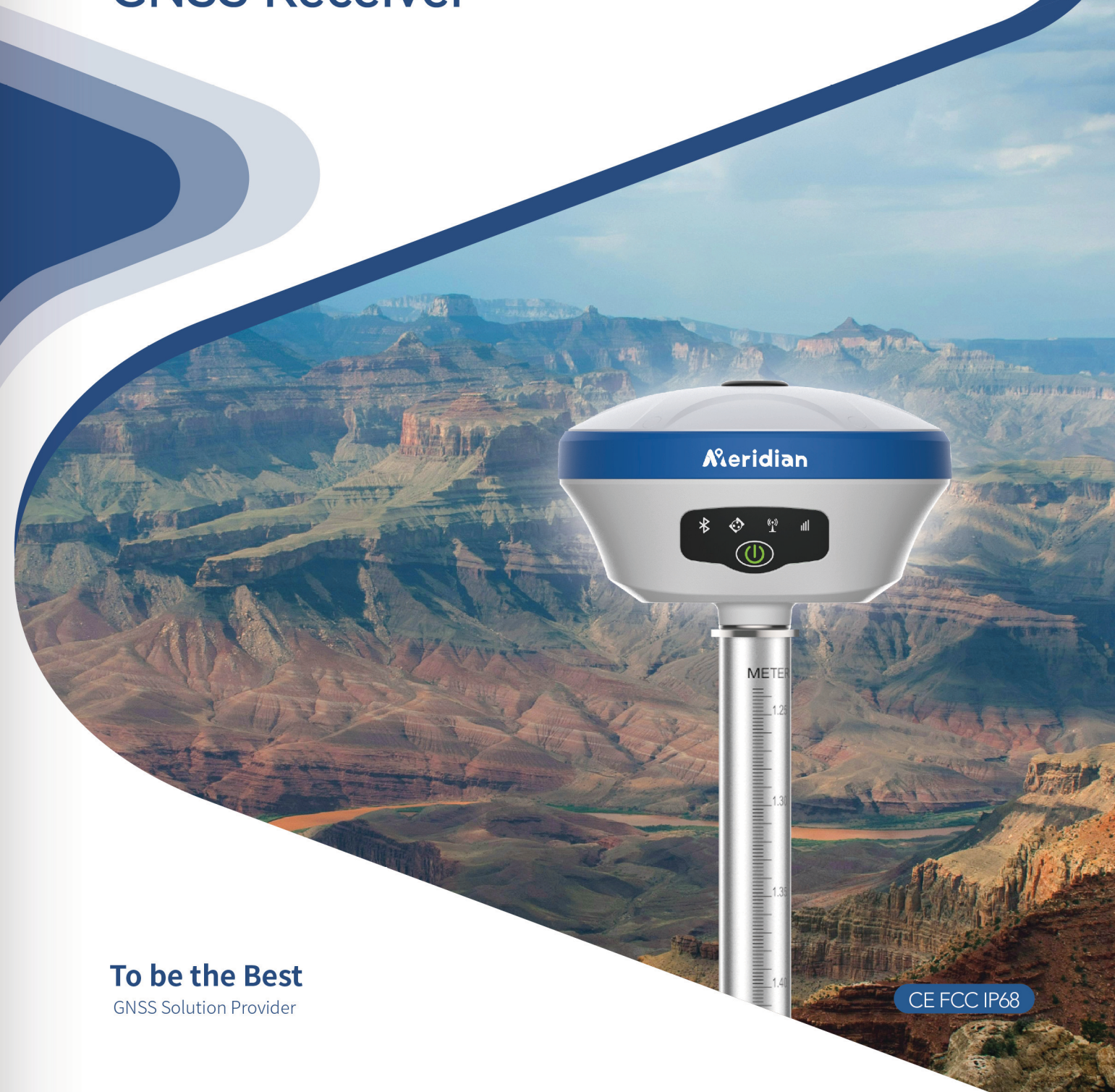
2. *BDS B2b, GALILEO E6, QZSS L6, IRNSS L5 will be provided through future product upgrade.



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M8 GNSS Receiver



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