

Technical Specifications

Platform	Hardware	Qualcomm MDM9628 Cortex-A7
	System	Linux
GNSS Signal^①	Channels	800/1408
	GPS	L1CA/L1P/L1C/L2P/L2C/L5
	GLONASS	G1/G2/G3, P1/P2
	BDS	B1i/B2i/B3i/B10C/B2A/B2B/ACEBOC
	GALILEO	E1BC/E5a/E5b/E6BC/ALTBOC
	QZSS	L1CA/L2C/L5/L1C/LEX
	SBAS	L1, L5
	IRNSS L5	L5
	L-Band	A10/A30/A50
	Data Format	CMR, CMR+, RTCM2.X, RTCM3.X
	Data output	NMEA-0183, RINEX, GNS
	Data updating rate	1Hz standard, up to 20Hz
	Time to recapture	<1s
	Cold start	<40s
	Positioning Performance	Single Point Positioning (RMS)
DGPS (RMS)		Horizontal: 0.4m Vertical: 0.8m
Real Time Kinematic (RMS)		Horizontal: $\pm(8\text{mm}+1 \times 10^{-6} \cdot D)$
		Vertical: $\pm(15\text{mm}+1 \times 10^{-6} \cdot D)$
Speed accuracy (RMS)		0.03m/s
Static accuracy (RMS)		Horizontal: $\pm(2.5\text{mm}+0.5^{-6} \cdot D)$
		Vertical: $\pm(5\text{mm}+0.5^{-6} \cdot D)$
Time accuracy (RMS)		20ns
Tilt compensation accuracy (up to 60°)	$\leq 2\text{cm}$	
Communication	Bluetooth	V2.1+EDR/V4.0 dual mode
	WIFI	802.11 a/b/g/n/ac
	Cellular	LTE FDD: B1/B3/B5/B8 LTE TDD: B38/B39/B40/B41
		TD-SCDMA: B34/B39 CDMA: BC0
	Storage	WCDMA: B1/B8 GSM: 900/1800MHz
		Built-in 32GB
Internal Radio	Transmitting power: 1.5W	
	Frequency: 410~470MHz	
	Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT	
	Air Baud Rate: 9600, 19200	
Battery	Specifications	3.7V, 9600mAh lithium-ion rechargeable battery
	Operating times	RTK Rover: up to 9 hours (typical power consumption) Static: up to 11 hours (typical power consumption)
	Charging	Support MTK PE+1.1/2.09V/1.6A Support USB PD 12V/1.25A Support 5V/2A (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:	IP67
Physical	Material	Magnesium-alloy casing + ABS/PC plastic top cover
	Dimensions	$\phi 147.9 \times 68\text{mm}$
	Weight	$\leq 0.75\text{kg}$
Accessories	M5 receiver	1set
	Power adapter	1piece
	USB A To Type-C cable	1piece
	Radio antenna	1piece

*Description and Specifications are subject to change without notice.

1.Compliant, but subject to availability of IRNSS and Galileo commercial service definition. IRNSS L5 and L-Band are optional.

2.Accuracies are dependent on GNSS satellite availability.

Meridian M5 GNSS RTK System



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