

📍 Technical Specification

System	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, TXT	
	Data Updating Rate	Up to 20Hz	
Positioning Performance	Time to Recapture	<1s	
	Cold Start	<40s	
	Single Point Positioning (RMS)	Horizontal: 1.5m	Vertical: 3.0mm
	DGPS (RMS)	Horizontal: 0.4m	Vertical: 0.8mm
	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	
Communication	Speed Accuracy	≥0.03m/s	
	Tilt Compensation Accuracy	≤2cm(Tilt Angle≤60°, Up to 120°)	
	IMU Update Frequency	200Hz	
	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	
Battery	Storage	GSM: B2/3/5/8	
		Up to 64GB	
		Transmitting Power:2W(37±1dBm) 1W(30±1dBm)	
	Internal Radio	Frequency: 410~470MHz	
		Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT, SATEL, MeridianLink optional	
		Air Baud Rate: 9600, 19200	
Environment	Specifications	7.4V, 7000mAh lithium-ion Rechargeable Battery	
	Operating Time	RTK Rover: Up to 26 hours (Typical Power Consumption)	
		Static: Up to 30 hours (Typical Power Consumption)	
	Charging	Support USB PD 15V/2A (Supports Quick Charging Adapter)	
Physical	Operating Temperature	-40°C~+85°C	
	Storage Temperature	-55°C~+85°C	
	Anti-seismic	2m Pole Drop Onto Concrete	
	Dust & Waterproof	IP67	
Physical	I/O Interface	1× USB type-C Port; 1 × SMA antenna Port; 1× SIM Card Slot; 1 × 5pin LEMO Port	
	Dimensions	119mm×119mm×76mm	
	Weight	662g	

1. *Description and Specifications are subject to change without notice.
2. *BDS B2b, GALILEO E6, QZSS L6, IRNSS L5 will be provided through future product upgrade.

www.triyass.in

M No. 95550 44154



Meridian

📍 M20Lite
GNSS RTK

To be the Best
GNSS Solution Provider

CE FCC IP67