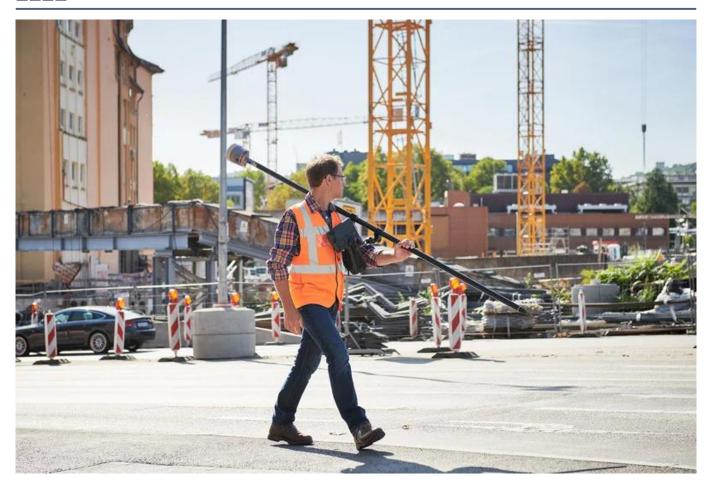
nnnnnnn r12 <mark>rtk gnss</mark> n nnn
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* Trimble Propoint™GNSS□□□□□□

* Trimble SurePoint™ □□□□□□

Ebubble Compass Compass

- * Trimble 360
- * TrimbleXFill® 🛮 🖺 🗎 🗎



PERFORMANCE SPECIFICA			
GNSS MEASUREMENTS	Constallation assessed flexible size of breaking and breaking	durantition along the about an along any decomposite with Tringble Dec De lab	
	Constellation agnostic, flexible signal tracking and improved positioning in challenging environments with Trimble ProPoint GNSS technology		
	Increased measurement productivity and traceability with Trimble SurePoint eBubble tilt compensation Advanced Trimble Custom Survey GNSS chips with 672 channels Peduced downtime due to loss of radio signal as callular some of high with Trimble well to be peduced.		
	Reduced downtime due to loss of radio signal or cellular connectivity with Trimble xFill technology		
	Signals tracked simultaneously	GPS: LIC, LIC/A, L2C, L2E, L5 GLONASS: L1C/A, L1P, L2C/A, L2P, L3 SBAS (WAAS, EGNOS, GAGAN, MSAS): L1C/A, L5 Galileo: E1, E5A, E5B, E5 AltBOC, E6 ² BeiDou: B1, B1C, B2, B2A, B3 QZSS: L1C/A, L1S, L1C, L2C, L5, L6 NavIC (IRNSS): L5 L-band: Center Point RTX	
	Iridium filtering above 1616 MHz allows antenna to be used up to 20 m away from iridium transmitter		
	Japanese LTE filtering below 1510 MHz allows antenna to be used up to 100 maway from Japanese LTE cell tower		
	Digital Signal Processor (DSP) techniques to detect and re-	Digital Signal Processor (DSP) techniques to detect and recover from spoofed GNSS signals	
	to improve position quality	M) algorithm to detect and reject problem satellite measurement	
	Improved protection from erroneous ephemeris data		
	Positioning Rates	1 Hz, 2 Hz, 5 Hz, 10 Hz, and 20 Hz	
POSITIONING PERFORMAN	NCE ³		
CODE DIFFERENTIAL GNSS PO	SITIONING		
	Horizontal	0.25 m+1ppmRMS	
	Vertical	0.50 m + 1 ppm RMS	
	SBAS ⁴	typically <5 m 3DRMS	
STATIC GNSS SURVEYING			
High-Precision Static			
	Horizontal	3 mm + 0.1 ppm RMS	
	Vertical	3.5 mm + 0.4 ppm RMS	
Static and Fast Static			
	Horizontal	3 mm + 0.5 ppm RMS	
	Vertical	5 mm + 0.5 ppm RMS	
REALTIME KINEMATIC SURVEY	YING		
Single Baseline <30 km			
	Horizontal	8 mm +1 ppm RMS	
	Vertical	15 mm + 1 ppm RMS	
Network RTK ⁵			
	Horizontal	8 mm + 0.5 ppm RMS	
	Vertical	15 mm + 0.5 ppm RMS	
RTK start-up time for specified precisions ⁶		2 to 8 seconds	
TRIMBLE RTX™ TECHNOLOGY ((SATELLITE AND CELLULAR/INTERNET (IP))		
CenterPoint RTX ⁷			
	Horizontal	2 cm RMS	
	Vertical	5 cm RMS	
	RTX convergence time for specified precisions - Worldwide	<15min	
	RTX QuickStart convergence time for specified precisions	<1min	
	RTX convergence time for specified precisions in select regions (Trimble RTX Fast Regions)	<1min	
TRIMBLE XFILL8	Brand (minor transferred in the		
	Horizontal	RTK ⁹ + 10 mm/minute RMS	
	Vertical	RTK9 + 20 mm/minute RMS	

PHYSICAL			
Dimensions (W×H)	11.9 cm x 13.6 cm (4.6 in x 5.4 in)		
	1.12 kg (2.49 lb) with internal battery, internal radio with UHF antenna,		
Weight	3.95 kg (8.71 lb) items above plus range pole, Trimble TSC7 controller & bracket		
Temperature ¹⁰			
	Operating	-40 °C to +65 °C (-40 °F to +149 °F)	
	Storage	-40 °C to +75 °C (-40 °F to +167 °F)	
Humidity		100%, condensing	
ngress protection		IP67 dustproof, protected from temporary immersion to depth of 1 m (3.28 ft)	
Shock and vibration (Tested and	meets the following environmental standards)		
	Shock	Non-operating: Designed to survive a 2 m (6.6 ft) pole drop onto concrete. Operating: to 40 G, 10 msec, sawtooth MIL-STD-810F, FIG.514.5C-1	
ELECTRICAL			
LLCOTHIONE	Power 11 to 24 V DC external power input with over-	voltage protection on Port 1 and Port 2 (7-pin Lemo)	
		Rechargeable, removable 7.4V, 3.7 Ah Lithium-ion smart battery with LED status indicators	
		Power consumption is 4.2 W in RTK rover mode with internal radio [®]	
Operating times on internal batte			
operating times of internal batte	450 MHz receive only option	6.5 hours	
	450 MHz receive/transmit option (0.5 W)	6.0 hours	
	450 MHz receive/transmit option (2.0 W)	5.5 hours	
	Cellular receive option	6.5 hours	
COMMUNICATIONS AND	I A Marie Control of the Control of		
Serial	3-wire serial (7-pin Lemo)		
USB v2.0	Supports data download and high speed communications		
	Fully Integrated, sealed 450 MHz wide band receive Trimble, Pacific Crest, and SATEL radio protocols:	er/transmitter with frequency range of 403 MHz to 473 MHz, support of	
Radio modem	Transmit power	2 W	
	Range	3-5 km typical / 10 km optimal ¹³	
Cellular ^y	Integrated, 3.5 G modern, HSDPA 7.2 Mbps (download), GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM CSD 3GPP LTE		
Bluetooth	Fully integrated, fully sealed 2.4 GHz communications port (Bluetooth) ¹⁵		
Wi-Fi	802.11 b.g. access point and client mode, WPA/WPA2/WEP64/WEP128 encryption		
I/O ports	Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth		
Datastorage	6 GB internal memory		
Data format	CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 input and output		
	24 NMEA outputs, GSOF, RT17 and RT27 outputs, 1 PPS output		
WEBUI			
	Offers simple configuration, operation, status, and	data transfer	
	Accessible via Wi-Fi, Serial, USB, and Bluetooth		
SUPPORTED CONTROLLERS	S & FIELD SOFTWARE		
		Trimble TSC7, Trimble T10, Trimble T7, Android and iOS devices running supported apps	
	Trimble Access 2019.10 or later	a var vycu nacen i vraket artisket filosofa filosofako z kolofayet.	
CERTIFICATIONS			
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