Trimble 🕄

R750

E Trimble R750 GNSS RECEIVER

KEY FEATURES

- ► Trimble[®] Maxwell[™] 7 GNSS ASIC
- Advanced satellite tracking with Trimble 360 receiver technology
- Trimble ProPoint[®] GNSS positioning engine. Engineered for improved accuracy and productivity in challenging GNSS conditions
- ► Trimble IonoGuard[™] technology for mitigation of ionospheric GNSS signal disruptions
- Convenient front panel display and configuration
- Wi-Fi[®] and 4G LTE connectivity
- Bluetooth[®], Ethernet, serial and USB support
- 8 GB internal memory
- Data logging internally and to external drive
- USB-C PD charging
- RTK level precision Trimble CenterPoint[®] RTX corrections technology
- Trimble xFill[®] correction outage technology

Learn more: geospatial.trimble.com/trimble-r750



P Trimble

PERFORMANCE SPECIFICATIONS

GNSS MEASUREMENTS

Advanced Trimble Maxwell 7 Custom GNSS Chips with 336 channels

Trimble EVEREST[™] Plus multipath signal rejection

Trimble IonoGuard technology for mitigation of ionospheric GNSS signal disruptions

Constellation agnostic, flexible signal tracking and improved positioning¹ in challenging GNSS environments with Trimble ProPoint GNSS technology High-precision multiple correlator for GNSS pseudorange measurements

Unfiltered, unsmoothed pseudo-range measurements data for low noise, low multipath error, low time domain correlation, and high-dynamic response Very low noise carrier phase measurements with <1 mm precision in a 1 Hz bandwidth

MSS Band (2-channels): Trimble CenterPoint RTX correction service and OmniSTAR® by subscription. Trimble CenterPoint RTX correction service is activated and ready to use for the initial 12 months. Learn more at **rtx.trimble.com.**

Reduced downtime due to loss of cellular connectivity with Trimble xFill technology

Signals tracked simultaneously

GPS: L1C/A, L1C, 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, B2B, B3
QZSS: L1C/A, L1S, L1C, L2C, L5, L6
NavIC (IRNSS): L5
L-band: CenterPoint RTX

Positioning rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz, 50 Hz

1 031001111g10003. 1 112, 2 112, 3 112, 10 112, 20			
POSITIONING PERFORMANCE ³			
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	
REAL TIME KINEMATIC SURVEYING			
Single Baseline <30 km			
	Horizontal	8 mm + 1 ppm RMS	
	Vertical	15 mm + 1 ppm RMS	
Network RTK ⁴			
	Horizontal	8 mm + 0.5 ppm RMS	
	Vertical	15 mm + 0.5 ppm RMS	
RTK start-up time for specified precisions ⁵		2 to 8 seconds	
TRIMBLE RTX® CORRECTION SERVICE	.5		
CenterPoint RTX ⁶	Horizontal	2 cm (0.06 ft) RMS	
	Vertical	3 cm (0.1 ft) RMS	
			<1 min
	RTX convergence time for specified precisions in Trimble RTX Fast regions		
	RTX convergence time for specified p	recisions in non RTX Fast regions	< 3 min
TRIMBLE ×FILL ⁷	Horizontal	DTI/8 + 10 mm (0.02 ft)/min DMC	
	Vertical	RTK ⁸ + 10 mm (0.03 ft)/min RMS	
	veruca	RTK ⁸ + 20 mm (0.06 ft)/min RMS	
TRIMBLE ×FILL PREMIUM ⁷	University	3 cm RMS	
	Horizontal Vertical	3 cm RMS 7 cm RMS	
CODE DIFFERENTIAL GNSS POSITION	ING Horizontal	$0.25 m \pm 1 ppm PMS$	
	Vertical	0.25 m + 1 ppm RMS	
	SBAS ⁹	0.50 m + 1 ppm RMS	
	SNO2	typically <5 m 3DRMS	

Trimble R750 GNSS RECEIVER

HARDWARE			
PHYSICAL			
Keyboard and display			
	Display 32 characters by 4 rows		
	On/Off key for one-button startup Escape and Enter keys for menu navigation 4 arrow keys (up, down, left, right) for option scrolls and data entry		
Dimensions (L \times W \times D)	269 mm (10.6 in) x 141 mm (5.5 in) x 61 mm (2.4 in)		
Weight	2.05 kg (4.52 lb)		
Temperature ¹⁰			
	Operating	-40 °C to +65 °C (-40 °F to +149 °F)	
	Storage	-40 °C to +80 °C (-40 °F to +176 °F)	
Humidity	93% humidity at 40 °C for a duration of 3	hours (IEC-60945 Method 8.3)	
Ingress Protection	IP67 for temporary submersion to depth	o of 1 m (3.3 ft), dustproof	
Shock and vibration			
	Pole drop	Designed to survive a 1.1 m (3.6 ft) pole drop onto a hard surface	
	Shock - Non-operating	To 75 g, 6 ms	
	Shock - Operating	To 40 g, 10 ms, saw-tooth	
	Shock Operating	IEC 60945 Method 8.7	
	Vibration	Random 6.2 g RMS operating	
	VIDIATION	9.8 g RMS 24-2000 Hz for 1 hrs each axis survival	
ELECTRICAL		5.0 g ((W) 24 2000 H2 for This cach axis sol vival	
	Integrated internal battery 7.26 V, 6700 r	nAh. Lithium-ion	
	Internal battery operates as a UPS during		
Internal	Internal battery will charge from external power source as long as source can support the p than 12.5 VDC		
	Integrated charging circuitry		
	Power input on 7-pin 0-shell Lemo connector is optimized for lead acid batteries with a cut-off threshold of 11.5 V, Maximum 28 VDC Power input on the 26-pin D-sub connector has a cut-off threshold of 10.5 V		
External	Power source supply (Internal/External) is hot-swap capable in the event of power source removal or cut off		
	DC external power input with over-voltage protection		
	Receiver automatically turns on when connected to external power		
	6.6 W in rover mode with internal receive radio		
	8.5 W in base mode with internal transmit radio		
Power consumption	5.7 W in rover mode with internal LTE modem		
	6.1 W in base mode with internal LTE modern		
Operation time on internal battery			
operation time on internal battery	7 hours 450 MHz UHF receive		
Rover	8.5 hours cellular receive (Internal or Controller via Bluetooth)		
	4.8 hours 2.0 W 450 MHz transmit		
Base station	5.5 hours 0.5 W 450 MHz transmit		
	7.4 hours cellular transmit		
CERTIFICATIONS ¹¹			
Safety	IEC 62368-1, IEC 60950-1, IEC 62311, IEEE	C95.3, UN 38.3, UL 2054	
FCC		rt C Section 15.2.47, Part 90, Part 22/24/27, part 2, KDB 447498 D01	
Canada	ICES-003 (Class B). RSS-GEN, RS-102, RSS-247, RSS-130/132/133/139/199.		
	RED 2014/53/EU, EN 300 113, EN 300 328, EN 301 908, EN 303 413, EN IEC 62368-1, RoHS Directive 2011/65/EU,		
EU	WEEE Directive 2012/19/EU.		
UKCA	S.I. 2017 No. 1206, S.I. 2016 No. 1091, S.I. 2016 No. 1101.		
ACMA	AS/NZS 4268, AS/NZS CISPR 32		
Communications	PTCRB, Bluetooth SIG		



Trimble R750 GNSS RECEIVER

Serial 2 (COM2) 26-pin D-sub, Serial 2, 5-wire RS232, using adaptor cable (Selectable) Serial 3 (COM3) 26-pin D-sub, Serial 3, 4-wire RS422, using adaptor cable (Selectable) Serial 4 (COM4) 26-pin D-sub, Serial 4, 4-wire RS422, using adaptor cable (Selectable) 1PPS (1 Pulse-per-second) Supported on both Lemo and 26-pin D-sub Event In Supported on Lemo USB Supported on Lemo USB Through a multi-port adaptor Ethernet Through a multi-port adaptor Wi-Fi Fully-integrated, fully-sealed 2.4 GHz Bluetooth module* Cellular ²² Fully-integrated, fully-sealed 2.4 GHz Bluetooth module* Cellular ²³ Fully-integrated, fully-sealed 2.4 GHz Bluetooth module* Cellular ²⁴ Ves NTRP FULY-Integrated, fully-sealed 2.4 GHz Bluetooth module* Cellular ²⁴ Ves NTRP Series Comment VError Ves NTRP Ves NTRP Ves NTRP Ves Ves Series Comment Ves Series Comment NTRP Ves NTRP Ves NTRP Series Co	COMMUNICATIONS AND DATA	STORAGE		
Serial 2 (COM2) 26-pin D-sub, Serial 3, 4-wire RS422, using adaptor cable (Selectable) Serial 3 (COM3) 26-pin D-sub, Serial 3, 3-wire RS232, using adaptor cable (Selectable) Serial 4 (COM4) 26-pin D-sub, Serial 3, 3-wire RS232, using adaptor cable (Selectable) Serial 4 (COM4) Supported on both Lemo and 26-pin D-sub Event in Supported on both Lemo and 26-pin D-sub USB USB v2.0 (Supports USB-PD charging) Ethernet Through a multi-port adaptor Wi-Fi Fully-integrated, fully-sealed 2.4 Wi-Fi module Simultaneous Access Point (AP) and Client modes Bluetooth wireless technology Fully-integrated, fully-sealed 2.4 Wi-Fi module Bands 1:2:3:4:5:7:8:12:18:19:20:28 NETWORK PROTOCOLS Ithrey retard, fully-sealed 2.4 GHz Bluetooth module* Simultaneous Access Point (AP) and Client modes NTRIP HTTP, HTTPS Ithrey retard, fully-sealed 2.4 GHz Bluetooth module Bands 1:2:3:4:5:7:8:12:18:19:20:28 NTRIP Ves Simultaneous Access Point (AP) and V2.0 Client Server and Caster modes Ithrey Client Server and Caster modes NTRIP Ves Ves Ithrey Client Server and Caster modes Ithrey Client Server and Caster modes NTRIP Ves Simultaneous Access Point AP) Simultaneous Access Point AP)	Serial 1 (COM1)	7-pin 0S Lemo, Serial 1, 3-wire RS-232		
26-pin D-sub, Serial 2, -wire Ks422, using adaptor cable (Selectable) Serial 4 (COM4) 26-pin D-sub, Serial 3, -wire RS422, using adaptor cable (Selectable) Serial 4 (COM4) 26-pin D-sub, Serial 4, 4-wire RS422, using adaptor cable (Selectable) IPPS (I Pulse-per-second) Supported on both Lemo and 26-pin D-sub Event In Supported on both Lemo and 26-pin D-sub USB USB v2.0 (Supports USB-PD charging) Ethernet Through a multi-port adaptor Wi-Fi Fully-integrated, fully-sealed 2.4 Wi-Fi module Simultaneous Access Point (AP) and Client modes Bluetooth wireless technology Fully-integrated, fully-sealed 2.4 GHz Bluetooth module* Editable Cellular ²² Fully-integrated, fully-sealed 2.4 GHz Bluetooth module* Bands 1:2:3:4:5:7:8:12:18:19:20:28 NTRP Fully-integrated, fully-sealed 2.4 GHz Bluetooth module* Bands 1:2:3:4:5:7:8:12:18:19:20:28 NTRP Vert Vert Vert Vert Vert Vert Vert Vert		26-pin D-sub, Serial 2, 5-wire RS232, using adaptor cable (Selectable)		
Serial 2 (COMA) 26-pin D-sub, Serial 4, 4-wire RS422, using adaptor cable (Selectable) 1PPS (1 Pulse-per-second) Supported on both Lemo and 26-pin D-sub Event In Supported on both Lemo and 26-pin D-sub Event In Supported on Lemo USB 02.0 (Supports USB-PD charging) Ethernet Through a multi-port adaptor Wi-Fi Ethernet Fully-integrated, fully-sealed 2.4 Wi-Fi module Simultaneous Access Point (AP) and Client modes Bluetooth wireless technology Fully-integrated, fully-sealed 2.4 GHz Bluetooth module ⁴ Cellular ² Fully-integrated, fully-sealed 2.4 GHz Bluetooth module ⁴ TTP (web browser GUI) HTTP, HTTPS NTP Server Yes CP/P or UDP Yes NTRIP V1 and v2, Client Server and Caster modes TRIP V NTRIP V1 and v2, Client Server and Caster modes MDNS/uPN Service discovery Yes Yes Ves MITEGRATED UHF RADIO Ves NTTRERTED UHF RADIO 400 MHz VILLY SUPPORT 400 MHz VILLY SUPPORT Channel spacing (450 MHz) - 114 dBm (12 dB SINAD) Transmit Power (450 MHz) - 0,50, W (2.0 W available only in certain countries) Connected Trimble Controller [Trimble Access ⁻] Remote access VILLY SUPPORT 500 FUED SUPPORT 500 FUED SUPPORT 500 FUED SUPPORT SUPPORT 500 FUED SUPPORT SUPPORT 500 FUED SUPPORT SUPPORT 500 FUED SUPPORT SUPPORT SUPPORT 500 FUED SUPPORT SUPPORT SUPPORT SUPPORT 500 FUED SUPPORT S	Serial 2 (COM2)	26-pin D-sub, Serial 2, 4-wire RS422, using adaptor cable (Selectable)		
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Supported on Lemo Uspected discovery Ves <td>Serial 4 (COM4)</td> <td>26-pin D-sub, Serial 4, 4-wire RS422, using adaptor cable (</td> <td>Selectable)</td>	Serial 4 (COM4)	26-pin D-sub, Serial 4, 4-wire RS422, using adaptor cable (Selectable)	
USB US US V2.0 (Supports USB-PD charging) Ethernet Through a multi-port adaptor Wi-Fi Ethernet Fully-integrated, fully-sealed 2.4 Wi-Fi module Simultaneous Access Point (AP) and Client modes Bluetooth wireless technology Fully-integrated, fully-sealed 2.4 GHz Bluetooth module4 Cellular ² Fully-integrated, fully-sealed 2.4 GHz Bluetooth module4 Edilular ³ Fully-integrated, fully-sealed 2.4 GHz Bluetooth module4 NTFWORK PROTOCOLS NTFW V V V V V V V V V V V V V V V V V V V	1PPS (1 Pulse-per-second)	Supported on both Lemo and 26-pin D-sub		
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Ethernet Through a multi-port adaptor Wi-Fi Fully-integrated, fully-sealed 2.4 Wi-Fi module Simultaneous Access Point (AP) and Client modes Bluetooth wireless technology Fully-integrated, fully-sealed 2.4 GHz Bluetooth module Bands 1:2:3:4:5:7:8:12:18:19:20:28 Cellular ¹² Fully-integrated, fully-sealed LE compliant module Bands 1:2:3:4:5:7:8:12:18:19:20:28 NETWORK PROTOCOLS HTTP, HTTPS Bands 1:2:3:4:5:7:8:12:18:19:20:28 NTP Server Yes Yes TCP/IP or UDP Yes Yes Dynamic DNS Yes Yes Dynamic DNS Yes Yes Dynamic DNS Yes Yes NTRIP Yes Yes NTRIP Yes Yes Dynamic DNS Yes Yes NTRIP Yes Yes Yes Yes Yes NT	USB	USB v2.0 (Supports USB-PD charging)		
Bluetooth wireless technology Fully-integrated, fully-sealed 2.4 GHz Bluetooth module ⁴ Cellular ¹² Fully-integrated, fully-sealed LTE compliant module Bands 1:2:3:4:5:7:8:19:20:28 NETWORK PROTOCOLS HTTP, HTTPS HTTP (web browser GUI) HTTP, HTTPS Yes Yes CP/IP or UDP Yes NTRIP NTRIP v1 and v2, Client Server and Caster modes Dynamic DNS Yes Yes Yes Dynamic DNS Yes INTEGRATED UHF RADIO Yes Kthanger (Stowery) Yes Yes Yes INTEGRATED UHF RADIO Yes Channel spacing (450 MHz) Fully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by Trimble Channel spacing (450 MHz) 0.5 W, 2.0 W (2.0 W available only in certain countries) CHULLAR SUPPORT Internal LTE modem (BSS, VRS, NTRIP) Connected Trimble Controller [Trimble Access"] Currected access Using DynDNs and appropriate service SUPPORTED DATA FORMATS Conrected Trimble Controller [Trimble Access"] Correction inputs CMRx, CMR+, CMR, RTCM 3.x, RTCM 3 Correction inputs CMRx, CMR+, CM	Ethernet			
Cellular ¹² Fully-integrated, fully-sealed LTE compliant module Bands 1:2:3:4:5:7:8:12:18:19:20:28 NETWORK PROTOCOLS HTTP, HTTPS HTTP (web browser GUI) HTTP, HTTPS NTP Server Yes TCP/IP or UDP Yes NTRIP NTRIP v1 and v2, Client Server and Caster modes DNS/uPnP Service discovery Yes eMail alerts Yes INTEGRATED UHF RADIO Yes 450 MHz Fully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by Trimble Channel spacing (450 MHz) -114 dBm (12 dB SINAD) Transmit Power (450 MHz) 0.5 w, 2.0 W (2.0 W available only in certain countries) CELLULAR SUPPORT Internal LTE modem (BSS, VRS, NTRIP) Connected Smartphone (BSS, VRS, NTRIP) Using DynDNS and appropriate service SUPPORTED DATA FORMATS Conrection inputs Correction inputs CMRx, CMR+", CMR, RTCM 2.x, RTCM 3 Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3	Wi-Fi	Fully-integrated, fully-sealed 2.4 Wi-Fi module	Simultaneous Access Point (AP) and Client modes	
NETWORK PROTOCOLS HTTP (web browser GUI) HTTP, HTTPS NTP Server Yes TCP/IP or UDP Yes NTRIP NTRIP v1 and v2, Client Server and Caster modes mDNS/uPn Service discovery Yes pynamic DNS Yes eMail alerts Yes INTEGRATED UHF RADIO Yes 450 MHz Fully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by Trimble Channel spacing (450 MHz) -114 dBm (12 dB SINAD) Transmit Power (450 MHz) 0.5 W, 2.0 W (2.0 W available only in certain countries) CELLULAR SUPPORT Internal LTE modem Connected smartphone Connected service SUPPORTED DATA FORMATS CMRx, CMR+", CMR, RTCM 2.x, RTCM 3 Correction inputs CMRx, CMR+", CMR, RTCM 2.x, RTCM 3 Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3	Bluetooth wireless technology	Fully-integrated, fully-sealed 2.4 GHz Bluetooth module ⁶		
HTTP (web browser GUI)HTTP, HTTPSNTP ServerYesTCP/IP or UDPYesNTRIPNTRIP v1 and v2, Client Server and Caster modesmDNS/uPnP Service discoveryYesDynamic DNSYeseMail alertsYesINTERCATED UHF RADIOYes450 MHzFully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by TrimbleChannel spacing (450 MHz).114 dBm (12 dB SINAD)Transmit Power (450 MHz)0.5 W, 2.0 W (2.0 W available only in certain countries)CELLULAR SUPPORTInternal LTE modem Connected Trimble Controller [Trimble Access"]Remote accessUsing DynDNS and appropriate serviceSUPPORTED DATA FORMATSCMRx, CMR+", CMR, RTCM 2.x, RTCM 3 Correction noutputsCorrection outputsCMRx, CMR+", CMR, RTCM 2.x, RTCM 3 RTCM 2.x, CMR+, CMRx, RTCM 3	Cellular ¹²	Fully-integrated, fully-sealed LTE compliant module	Bands 1:2:3:4:5:7:8:12:18:19:20:28	
NTP ServerYesTCP/IP or UDPYesNTRIPNTRIP v1 and v2, Client Server and Caster modesmDNS/uPnP Service discoveryYesbynamic DNSYeseMail alertsYestotal	NETWORK PROTOCOLS			
TCP/IP or UDPYesNTRIP v1 and v2, Client Server and Caster modesmDNS/uPnP Service discoveryYesDynamic DNSYeseMail alertsYesMTEGRATED UHF RADIOYes450 MHzFully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by TrimbleChannel spacing (450 MHz)-114 dBm (12 dB SINAD)Transmit Power (450 MHz)0.5 W, 2.0 W (2.0 W available only in certain countries)CELLULAR SUPPORTInternal LTE modem Connected Smartphone Connected Trimble Controller [Trimble Access"]Remote accessUsing DynDNS and appropriate serviceSUPPORTED DATA FORMATSCMRx, CMR+, CMRx, RTCM 3Correction inputsCMRx, CMR+, CMRx, RTCM 3Correction outputsRTCM 2.x, CMR, CMR+, CMRX, RTCM 3	HTTP (web browser GUI)	HTTP, HTTPS		
NTRIPNTRIP v1 and v2, Client Server and Caster modesNTRIP Service discoveryYesDynamic DNSYeseMail alertsYesINTEGRATED UHF RADIOYesINTEGRATED UHF RADIOFully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by TrimbleChannel spacing (450 MHz)Fully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by TrimbleChannel spacing (450 MHz).05 W, 2.0 W (2.0 W available only in certain countries)CELLULAR SUPPORTInternal LTE modem Connected smartphone Connected Trimble Controller [Trimble Access"]Remote accessUsing DynDNS and appropriate serviceSUPPORTED DATA FORMATSCMRx, CMR+", CMR, RTCM 2.x, RTCM 3 RTCM 2.x, CMR, CMR+, CMRx, RTCM 3Correction outputsRTCM 2.x, CMR, CMR+, CMRx, RTCM 3	NTP Server	Yes		
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Dynamic DNSYeseMail alertsYesINTEGRATED UHF RADIO450 MHzFully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by TrimbleChannel spacing (450 MHz)-114 dBm (12 dB SINAD)Transmit Power (450 MHz)0.5 W, 2.0 W (2.0 W available only in certain countries)CELLULAR SUPPORTInternet-based correction streams: (IBSS, VRS, NTRIP)Internal LTE modem Connected smartphone Connected smartphone Connected smartphone SuppORTED DATA FORMATSSUPPORTED DATA FORMATSCMRx, CMR+", CMR, RTCM 2.x, RTCM 3Correction inputsCMRx, CMR+", CMR, RTCM 2.x, RTCM 3Correction outputsETCM 2.x, CMR, CMR+, CMRX, RTCM 3.	NTRIP	NTRIP v1 and v2, Client Server and Caster modes		
Mail alertsYesINTEGRATED UHF RADIO450 MHzFully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by TrimbleChannel spacing (450 MHz)-114 dBm (12 dB SINAD)Transmit Power (450 MHz)0.5 W, 2.0 W (2.0 W available only in certain countries) <th colspace<="" td="" th<=""><td>mDNS/uPnP Service discovery</td><td>Yes</td><td></td></th>	<td>mDNS/uPnP Service discovery</td> <td>Yes</td> <td></td>	mDNS/uPnP Service discovery	Yes	
INTEGRATED UHF RADIO 450 MHz Fully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by Trimble Channel spacing (450 MHz) -114 dBm (12 dB SINAD) Transmit Power (450 MHz) 0.5 W, 2.0 W (2.0 W available only in certain countries) CELLULAR SUPPORT Internal LTE modem Connected smartphone Connected rimble Controller [Trimble Access"] Remote access Using DynDNS and appropriate service SUPPORTED DATA FORMATS CMRx, CMR+", CMR, RTCM 2.x, RTCM 3 Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3.	Dynamic DNS	Yes		
450 MHzFully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz spacing configurable by TrimbleChannel spacing (450 MHz)-114 dBm (12 dB SINAD)Transmit Power (450 MHz)0.5 W, 2.0 W (2.0 W available only in certain countries)CELLULAR SUPPORTInternet-based correction streams: (IBSS, VRS, NTRIP)Internal LTE modem connected smartphone connected Trimble Controller [Trimble Access"] Using DynDNS and appropriate serviceSUPPORTED DATA FORMATSCorrection inputsCMRx, CMR+", CMR, RTCM 2.x, RTCM 3Correction outputsRTCM 2.x, CMR, CMR+, CMRx, RTCM 3	eMail alerts	Yes		
Channel spacing (450 MHz) -114 dBm (12 dB SINAD) Transmit Power (450 MHz) 0.5 W, 2.0 W (2.0 W available only in certain countries) CELLULAR SUPPORT Internal LTE modem Internet-based correction streams: Internal LTE modem (IBSS, VRS, NTRIP) Connected smartphone Connected Trimble Controller [Trimble Access"] Using DynDNS and appropriate service SUPPORTED DATA FORMATS CMRx, CMR+", CMR, RTCM 2.x, RTCM 3 Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3	INTEGRATED UHF RADIO			
Transmit Power (450 MHz) 0.5 W, 2.0 W (2.0 W available only in certain countries) CELLULAR SUPPORT Internet-based correction streams: Internal LTE modem Connected smartphone Connected Trimble Controller [Trimble Access [™]] Remote access Using DynDNS and appropriate service SUPPORTED DATA FORMATS CMRx, CMR+ [™] , CMR, RTCM 2.x, RTCM 3 Correction outputs CMR2.x, CMR+, CMRx, RTCM 3.	450 MHz	Fully-integrated, internal 403-473 MHz, 12.5 kHz or 25 kHz	spacing configurable by Trimble	
CELLULAR SUPPORT Internet-based correction streams: Internal LTE modem (IBSS, VRS, NTRIP) Connected smartphone Connected rimble Controller [Trimble Access [™]] Remote access Using DynDNS and appropriate service SUPPORTED DATA FORMATS Correction inputs CMRx, CMR+ [™] , CMR, RTCM 2.x, RTCM 3 Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3	Channel spacing (450 MHz)	-114 dBm (12 dB SINAD)		
Internet-based correction streams: Internal LTE modem (IBSS, VRS, NTRIP) Connected smartphone connected rrimble Controller [Trimble Access"] Remote access Using DynDNS and appropriate service SUPPORTED DATA FORMATS Correction inputs CMRx, CMR+", CMR, RTCM 2.x, RTCM 3 Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3	Transmit Power (450 MHz)	0.5 W, 2.0 W (2.0 W available only in certain countries)		
(IBSS, VRS, NTRIP) Connected smartphone Connected Trimble Controller [Trimble Access*] Remote access Using DynDNS and appropriate service SUPPORTED DATA FORMATS CMRx, CMR+*, CMR, RTCM 2.x, RTCM 3 Correction inputs CMRx, CMR+*, CMRx, RTCM 3. Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3	CELLULAR SUPPORT			
SUPPORTED DATA FORMATS Correction inputs CMRx, CMR+ ^w , CMR, RTCM 2.x, RTCM 3 Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3	Internet-based correction streams: (IBSS, VRS, NTRIP)	Connected smartphone		
Correction inputs CMRx, CMR+ ^w , CMR, RTCM 2.x, RTCM 3 Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3	Remote access			
Correction outputs RTCM 2.x, CMR, CMR+, CMRx, RTCM 3	SUPPORTED DATA FORMATS			
	Correction inputs	CMRx, CMR+ [™] , CMR, RTCM 2.x, RTCM 3		
Data outputs	Correction outputs	RTCM 2.x, CMR, CMR+, CMRx, RTCM 3		
	Data outputs	NMEA 0183, GSOF, 1PPS Time Tags		

- 1 Challenging GNSS environments are locations where the receiver has sufficient satellite availability to achieve minimum accuracy requirements, but where the signal may be partly obstructed by and/o reflected off of trees, buildings, and other objects. Actual results may vary based on user's geographic location and atmospheric activity, 2 The current capability in the receivers is based on publicly available information. As such, Trimble
- cannot guarantee that these receivers will be fully compatible with a future generation of Galileo
- satellites or signals. Precision and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions. The specifications stated recommend the use of stable mounts in an open sky view, EMI and multipath clean environment, optimal GNSS constellation configurations, along with the use of survey practices that are generally accepted for performing the highest-order surveys for the applicable application including occupation times appropriate for baseline length. Baselines longer than 30 km require precise ephemeris and occupations up to 24 hours may be required to achieve the high precise precise precise precise precise precise precise and a subject of the precise of the precise of the precise precise of the precise precise of the precise pre

- Initialization reliability is continuously monitored to ensure highest quality. RMS performance based on repeatable in field measurements. Achievable accuracy and initialization time may vary based on type and capability of receiver and antenna, user's geographic location and 6

atmospheric activity, scintillation levels, GNSS constellation health and availability and level of multipath including obstructions such as large trees and buildings. Average initialization times when using GPS, GLONASS, Galileo, and BeiDou. Accuracies are dependent on GNSS satellite availability. xFill positioning without an xFill Premium subscription ends after 5 minutes of radio downtime. xFill Premium will continue beyond 5 minutes providing the solution has converged, with typical precisions not exceeding 3 cm horizontal, 7 cm vartical will be in a published in a group of the concentration for more more than the solution has converged. 7 cm vertical. xFill is not available in all regions, check with your local sales representative for more information

- 8 RTK refers to the last reported precision before the correction source was lost and xFill started.
 9 Depends on SBAS system performance.
 10 Operating up to +65 °C ambient when the device is powered by external DC supply and the battery is
- Operating up to +30 °C ambient when the battery is being charged by a USB-PD battery or charger.
- 11 More certification is available upon request.

12 Verizon is not a supported network in USA.

Specifications subject to change without notice



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