

GPS/GNSS PRODUCT COMPARISON

	Trimble BD950	Trimble BD960	Trimble BX960	
				
Technical Specifications				
Channels / Signals Tracked	24 -- L1 C/A code, L2C, L1/L2 full cycle carrier, WAAS/EGNOS support	72 -- GPS L1 C/A Code, L2C, L1/L2/L5 Full Cycle Carrier GLONASS L1 C/A Code, L1 P Code, L2 C/A, L2 P Code, L1/L2 Full Cycle Carrier 4 additional channels for SBAS WAAS/EGNOS/MSAS support L-Band OmniSTAR VBS, HP & XP	72 -- GPS L1 C/A Code, L2C, L1/L2/L5 Full Cycle Carrier GLONASS L1 C/A Code, L1 P Code, L2 C/A, L2 P Code, L1/L2 Full Cycle Carrier 4 additional channels for SBAS WAAS/EGNOS/MSAS support L-Band OmniSTAR VBS, HP & XP (BX960-2 contains a second 72 channel receiver configured for heading only)	
Data Rates	Up to 20 Hz			
Initialization time	Typically <30 seconds		Typically <10 seconds	
Communications	Four RS-232 ports. Baud rates up to 115,200	3 x RS232 ports: Baud rates up to 115,200 1 LAN port: Supports links to 10BaseT/100BaseT networks	BX960 has 2 x RS232 ports and BX960-2 has 3 x RS232 ports: Baud rates up to 115,200 1 LAN port: Supports links to 10BaseT/100BaseT networks	
External frequency input	10 MHz			
Physical Specifications				
Size	100 mm x 80 mm x 17 mm	100 mm x 106.7 mm x 12.7 mm	261 mm x 140 mm x 55 mm	
Power	+4.5 V DC to +32 V DC Typical 1.0 W at 5 V DC (L1 Only) Typical 1.5 W at 5 V DC (L1/L2 and RTK)	4.9 V DC to 28 V DC Typical 2.1 W at 5 V DC (L1/L2 GPS)	9 V DC to 28 V DC Maximum 8.8 W (BD960-2)	
Connectors I/O Antenna External frequency input	DIN41612 64-pin connector SMC right angle SSMC	34-pin header MMCX receptacle	D-sub DE9 and DA26 (BX960-2 has an additional DE9) TNC (BX960-2 has an additional TNC)	
Environmental Specifications				
Temperature Operating Storage	-40 °C to +75 °C -55 °C to +85 °C			
Vibration	MIL810D, tailored Random 6.2 gRMS operating Random 8 gRMS survival			
Mechanical shock	MIL810D ±40 g operating ±75 g survival			
Positioning Specifications				
	Mode	Accuracy	Latency	Maximum Rate
	Synchronized RTK	1 cm + 1 ppm Horizontal 2 cm + 1 ppm Vertical	300 ms	10 Hz
	Low Latency RTK	2 cm + 2 ppm Horizontal 3 cm + 2 ppm Vertical	<20 ms	20 Hz
	DGPS	<1 m 3D	<20 ms	20 Hz
	SBAS	<5 m 3D	<20 ms	20 Hz
Heading Specifications (BX960-2 GNSS Receiver Only)				
	Baseline	Accuracy	Maximum Rate	
	10 m	<0.06°	10 Hz	
	1 m	<0.57°	10 Hz	



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