

# Trimble Water Hardware Portfolio



	TDC100	TDC600	Ranger 7	T10	R1	R2
<b>SYSTEM SPECIFICATIONS</b>						
Trimble Unity Compatible	●	●	●	●	●	●
Operating System	Android 6	Android 8	Windows 10 Professional	Windows 10 Professional	-	-
Processor	1.2 GHz Qualcomm™	2.2 GHz Snapdragon 626 (OctaCore)	2.5GHz Intel N4200 (Quad Core)	Intel® 6th Gen Core™ i7	-	-
Memory (RAM)	2 GB SDRAM	4 GB	8 GB	8 GB	-	-
Data Storage	16 GB (4G) or 8 GB (Wi-Fi)	64 GB	64 GB	256GB or 512 GB SSD	-	-
Display Size (diagonal)	5.3 In. (13.4 cm)	6.0 In. (15.2 cm)	7.0 In (17.8 cm)	10.1 In. (25.6 cm)	-	-
Display Resolution	1280x720 Pixels	1920 x 1080 Pixels	1280 x 800 Pixels	1920 x 1200 Pixels (WUXGA)	-	-
Display Technology	Transflective with LED	LED capacitive multi-touch	LED backlit	LED backlit	-	-
Compass & Accelerometer	●	●	●	●	-	-
Weight (Including Battery)	310g(10.9oz) /278g(9.8oz)	385 g(13.6 oz)	1.05 kg (2.3 lbs)	1.4 kg (3.08 lbs.)	0.4 lb (0.2 kg)	2.3 lb (1.0 kg)
Battery Life (standard, default settings)	15+ hours, 4800 mAh	15 hours, 8000mAh (user replaceable)	up to 12 hours	12 hours	9+ hours	5 hours
<b>RUGGED SPECIFICATIONS</b>						
Ingress Protection (Dust & Water)	IP67	IP67	IP68	IP65	IP65	IP65
MIL-STD-810 F/G Shock/Drop	38 drops from 4 ft. (1.2 m)					ENVIRONMENTAL CHARACTERISTICS Operating temp: -20° to +55°C (-4° to +131°F) Storage temp: -40° to +75°C (-40° to +167°F) Humidity: 100% condensing IP65 waterproof Pole Drop: 2 m pole drop on concrete DMilitary Standard: 2MIL-STD-810G vibration
MIL-STD-810 F/G Vibration	General Minimum Integrity test for 1 hour per axis; Vibration and Loose cargo test for .5 hours per axis					
MIL-STD-810 F/G Altitude	Decompression at 2,000 feet per minute from 15,000 ft at 73° F (23 C) to 40,000 ft at -22° F (-30C)					
MIL-STD-810 F/G Operating Temp	TDC: -4°F to +144°F (-20°C to +60°C)					
MIL-STD-810 F/G Storage Temp	-40° F to 158° F (-40° C to 70° C)					
MIL-STD-810 F/G Temperature Shock	-22° F/149° F (-30° C/+65° C)					
MIL-STD-810 F/G Humidity	90% relative humidity temperature cycle 32° F/158° F (0° C/+70 C)					
MIL-STD-810 F/G Humidity	TDC600: -40 °C to 70 °C (-40 °F to 158 °F)					



# Trimble Water Hardware Portfolio



	TDC100	TDC600	Ranger 7	T10	R1	R2
<b>SYSTEM SPECIFICATIONS</b>						
Numeric Keypad	○	○	●	○	-	-
Qwerty Keypad	○	3 programmable physical buttons	●	○	-	-
Integrated Barcode Reader	○	○	Optional 1D Reader	○	-	-
Integrated RFID Reader	○	○	Optional	○	-	-
Audio Jack	●	Through USB-C adapter	●	●	-	-
Languages Supported	57 <sup>2</sup>	26	111 <sup>1</sup>	111 <sup>1</sup>	-	-
<b>CONNECTIVITY SPECIFICATIONS</b>						
Secure Digital (SD/SDHC) Slot	1, micro SD	1, microSD (up to 256 GB)	1, microSD	○	-	-
USB Client	●	Yes, USB3.0 (type-C)	●	●	-	-
USB Host	○	○	●	●	-	-
Serial RS-232 9-Pin Port	○	○	Optional	○	-	-
Integrated Bluetooth	●	●	●	●	●	●
Integrated WiFi	●	●	●	●	○	●
Integrated Mobile Broadband	Optional GSM	Standard LTE	Optional: HSPA+, 4G LTE	Optional GSM	-	-
Integrated "Voice" Phone	Optional	Optional	○	○	-	-
Integrated Camera	Yes 13 MP	Yes, Rear 5MP, Front 13 MP	Yes, Rear 8 MP, Front 2 MP	5MP camera	-	-
GPS Accuracy w SBAS	2-5m	1.5 m	2-4 m	2-5 m	Submeter SBAS (75cm DGPS)	2 levels, up to 1cm x 2cm with VRS or RTK
Port for External GPS Antenna	●	○	Optional	○	●	○
Optional Docking Station Accessory	○	○	●	●	-	-
NFC	Optional	●	○	○	-	-

© 2009-2019 Trimble Navigation Limited. All rights reserved. Trimble, the Globe & Triangle logo, Juno, Nomad, and Yuma are trademarks of Trimble Navigation Limited, registered in the United States and in other countries. Ranger are trademarks of Trimble Navigation Limited. Microsoft and Windows, and Windows Mobile are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the property of their respective owners. Revision C, Oct 2019

1. Default language is English. Additional languages available to download through Microsoft Windows
2. Default language is English. Additional languages available to download through Android
3. Continuous offline operation: Up to 10 hours, continuous WLAN operation: Up to 8 hours, continuous LTE data operation: Up to 6 hours

[www.trimblewater.com](http://www.trimblewater.com)