



GIS Hardware Product Comparison

GNSS Receivers	R2 GNSS Receiver 	R1 GNSS Receiver 	Trimble Catalyst™ On-Demand Positioning Service 
DGNSS accuracy postprocessed*	> 1 cm	50 cm	—
DGNSS accuracy real-time*	> 1 cm	<1 m	> 1 cm
GLONASS-capable	Yes	Yes	Yes
EVEREST multipath rejection	Yes	Yes	Yes
GNSS Antenna	Fully integrated	Integrated or external	DA1 digital antenna only
Trimble RTX compatible	Yes	Yes (ViewPoint RTX™)	Yes
Integrated SBAS	Yes	Yes	Yes
Integrated OmniSTAR	Yes (VBS, XP, HP, or G2)	No	No
NMEA output	Yes (Optional)	Yes (Non-RTX)	No
RTCM input	Yes	Yes	Yes
Integrated Bluetooth	Yes	Yes	No
Weight	1.08 kg (2.38 lbs)	0.187 kg (0.4 lbs)	—
Battery life	5 hours (varies with temp.)	> 10 hours	—
Ruggedness	Withstands 2 m / 6.6 ft drop onto concrete	Withstands 1.2 m / 4 ft drop to plywood over concrete	—
Environmental	IP65	IP65	—
Operating temperature	−20 °C to 55 °C / −4 °F to 131 °F	−20 °C to +60 °C / −4 °F to +140 °F	—

* Refer to product datasheet and FAQs for full details and limitations. Accuracy specifications apply to the latest field and office software versions only.

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Handheld Computers with GNSS	TDC150 Handheld 	Geo 7X Handheld 	Nomad® 5 Handheld 	Juno® 5D Handheld 	TDC600 Handheld 	TDC100 Handheld 	T7 Tablet 
DGNSS accuracy postprocessed*	1–100 cm	1–100 cm	2–4 m	2–4 m	No	No	No
DGNSS accuracy real-time*	1–100 cm	1–100 cm	2–4 m (RTCM)	2–4 m (RTCM)	< 1.5 m typical	< 1.5 m typical	2–4 m
H-Star™ technology-capable	No	Yes	No	No	No	No	No
GLONASS-capable	Yes	Yes	Yes	No	Yes	Yes	Yes
Galileo-capable	Yes	Yes	No	No	Yes	Yes	Yes
QZSS-capable	Yes	Yes	No	No	Yes	Yes	No
BeiDou-capable	Yes	Yes	Yes	No	Yes	Yes	Yes
EVEREST™ multipath rejection	No	Yes	No	No	No	No	No
Floodlight™-capable	No	Yes	No	No	No	No	No
Trimble® RTX™ compatible	Yes, FieldPoint	Yes, via cellular delivery	Yes, via cellular delivery	No	No	No	No
Integrated SBAS	Yes	Yes, including SBAS+ support	Yes	Yes	Yes	Yes	Yes
Integrated OmniSTAR®	No	No	No	No	No	No	No
NMEA output	Yes	Yes	Yes	Yes	No	Yes	Yes
RTCM input	Yes	Yes	Yes (RTCM 2.3)	Yes (DGPS, RTCM 2.3)	No	No	Yes
Operating system	Android™ 6.0 "Marshmallow"	Windows® Embedded Handheld Professional 6.5	Android 8.1 "Oreo"	Windows Embedded Handheld Professional 6.5	Android 8.0 "Oreo"	Android 6.0 "Marshmallow"	Windows 10 Professional
Processor	1.2 GHz Qualcomm	1.0 GHz OMAP DM3730	2.2 GHz Qualcomm	1.0 GHz OMAP DM3730	2.2 GHz Qualcomm	1.2 GHz Qualcomm	Intel Pentium N4200
Memory (RAM)	2 GB	256 MB	4 GB	512 MB	4 GB	2 GB	8 GB
Screen details	13.4 cm / 5.3", multi-touch, 1280x720 px	10.7 cm / 4.2", color touch screen, 480x640 px	12.7 cm / 5" multi-touch, 1280x720 px	10.9 cm / 4.3", WVGA TFT, 480x800 px	15.2 cm / 6.0" multi-touch, 1920x1080 px	13.4 cm / 5.3", multi-touch, 1280x720 px	17.8 cm / 7", multi-touch, 1280x800 px
Data storage	16 GB	4 GB	32 GB	16 GB / 32 GB (Barcode model)	64 GB	8 GB (Wi-Fi model) / 16 GB (4G model)	128 GB
Expansion slots	1 (microSDHC)	1 (SD / SDHC)	1 (microSD/SDHC)	1 (microSD/SDHC)	1 (microSDHC)	1 (microSDHC)	1 (SDXC)
Alphanumeric data entry	Onscreen keyboard	Soft input panel (SIP) on screen keyboard	Onscreen keyboard, 3 programmable + 3 Android hard keys	Soft input panel (SIP) on screen keyboard	Onscreen keyboard, 4 programmable hard keys	Onscreen keyboard, 2 programmable hard keys	Onscreen keyboard, 4 programmable hard keys, 5-way directional hard keys, Windows and Power hard keys
Integrated Barcode scanner	No	No	No	Yes (Barcode model)	No	No	No
Integrated Bluetooth®	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Integrated Wi-Fi	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Integrated camera	2 MP front, 13 MP rear with flash	5 MP	8 MP front, 16 MP rear with flash	8 MP with flash	5 MP front, 13 MP rear with flash	2 MP front, 8 MP rear (Wi-Fi model) / 13 MP rear (4G model)	2 MP front, 8 MP rear with flash
Orientation sensors	Yes	Yes	Yes	No	Yes	Yes	Yes
Integrated rangefinder	No	Yes	No	No	No	No	No
Cellular modem	Yes	Yes (GSM/CDMA)	Yes	Yes (Juno 5D only)	Yes	Yes (4G model)	Yes
Cellular voice capability	No	No	No	Yes (Juno 5D only)	Yes	Yes (4G model)	No
Weight	0.8 kg (1.76 lbs)	0.96 kg (2.12 lbs) 1.08 kg (2.38 lbs) (incl. rangefinder)	0.7 kg (1.54 lbs)	0.4 to 0.5 kg (0.9 to 1.10 lbs) depending on configuration	0.38 kg (0.9 lbs)	0.27 to 0.31 kg (0.61 to 0.69 lbs) depending on model	1.2 kg (2.65 lbs)
Battery life	> 8 hours	Up to 10.5 hours: Internal GNSS, and backlight	Up to 10.5 hours	8 hours	15 hours: Internal GPS, and backlight	10 to 15 hours depending on model: Internal GPS, and backlight	7 hours depending on display setting, connectivity, data processing
Ruggedness	Withstands 1.2 m / 4 ft drop	Withstands 1.2 m / 4 ft drop	Withstands 1.8 m / 6 ft drop	Withstands 1.2 m / 4 ft drop	Withstands 1.2 m / 4 ft drop	Withstands 1.2 m / 4 ft drop	Withstands 1.2 m / 4 ft drop
Environmental	Protected from dust and moisture ingress per IP67 standard	Dust-proof and resistant to heavy wind-driven rain per IP65 standard	Dust-proof, resistant to heavy rain per IP65 standard and immersion per IP68 standard	Impervious to dust and submersible in water per IP68 standard	Protected from dust and moisture ingress per IP67 standard	Protected from dust and moisture ingress per IP67 standard	Impervious to dust and submersible in water per IP68 standard
Operating temperature	–20 °C to 60 °C / –4 °F to 140 °F	–20 °C to 60 °C / –4 °F to 140 °F	–30 °C to 60 °C / –22 °F to 140 °F	–30 °C to 60 °C / –22 °F to 140 °F	–20 °C to 55 °C / –4 °F to 131 °F	–20 °C to 60 °C / –4 °F to 140 °F	–20 °C to 60 °C / –4 °F to 140 °F

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