







# GIS Hardware Product Comparison

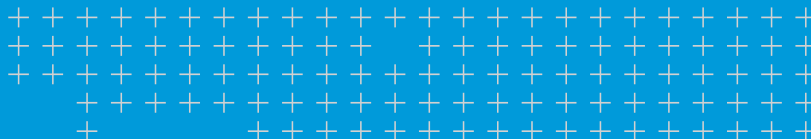
# GIS Hardware

## Product Comparison



Handheld Computers with GNSS	GeoExplorer® 7 Series 	Nomad® 1050 Series 	Juno® 5 Series 	TDC100 Series 	T10 Tablet 	Yuma® 2 Rugged Tablet Computer 
DGNSS accuracy postprocessed*	1 cm–100 cm	1 m–3 m	2 m–4 m	No	No	2 m–4 m
DGNSS accuracy real-time*	1 cm–100 cm	2 m–4 m	2 m–4 m (RTCM) 1 m–2 m (Enhanced GPS handhelds with SBAS/WAAS/EGNOS)	< 1.5 m typical	2–5 m	2 m–4 m (RTCM, SBAS) 1 m–2 m (Enhanced GPS tablets with WAAS/EGNOS)
H-Star™ technology-capable	Yes	No	No	No	No	No
GLONASS-capable	Yes	No	No	Yes	Yes	No
Galileo-capable	Yes	No	No	Yes	Yes	No
QZSS-capable	Yes	No	No	Yes	Yes	No
BeiDou-capable	Yes	No	No	Yes	Yes	No
EVEREST™ multipath rejection	Yes	No	No	No	No	No
Floodlight™-capable	Yes	No	No	No	No	No
RTX compatible	Yes, via cellular delivery	No	No	No	No	No
Integrated SBAS	Yes, including SBAS+ support	Yes	Yes	Yes	Yes	Yes
Integrated OmniSTAR	No	No	No	No	No	No
NMEA output	Yes	Yes	Yes	Yes	Yes	Yes
RTCM input	Yes	No	Yes (DGPS, RTCM 2.3)	No	No	Yes (DGPS, RTCM 2.3)
Operating system	Windows® Embedded Handheld Professional 6.5	Windows Embedded Handheld 6.5	Windows Embedded Handheld Professional 6.5	Android 6.0 "Marshmallow"	Windows 10 IoT Enterprise	Windows 7 Professional
Processor	1.0 GHz OMAP DM3730	1.0 GHz Texas Instruments DM3730	800 MHz (Juno 5B) / 1.0 GHz (Juno 5D) / 1.0 GHz (Juno 5B/5D Barcode, Enhanced GPS handhelds) OMAP DM3730	1.2 GHz Qualcomm	Intel® 6th Generation Core™ i7	1.6 GHz Intel Atom N2600 dual core
Memory (RAM)	256 MB	512 MB	512 MB	2 GB	8 GB	4 GB DDR2 DRAM
Screen details	10.7 cm / 4.2", color touch screen, 480x640 px	8.9 cm / 3.5", color touch screen, 480x640 px	10.9 cm / 4.3", WVGA TFT, 480x800 px	13.4 cm / 5.3", multi-touch, 1280x720 px	25.6 cm / 10.1", multi-touch 1920x1200 pixels	17.8 cm / 7", color touch screen, 1024x600 px
Data storage	4 GB	8 GB	8 GB (Juno 5B) / 16 GB (Juno 5D) / 32 GB (Juno 5B/5D Barcode, Enhanced GPS handhelds)	8 GB (Wi-Fi model) / 16 GB (4G model)	256 GB (Wi-Fi & Cirronet models) / 512 GB (4G model)	64 GB or 128 GB SSD 128 GB with Enhanced GPS tablets
Expansion slots	1 (SD / SDHC)	1 (microSD/SDHC)	1 (microSD/SDHC)	1 (microSDHC)	No	No
Alphanumeric data entry	Soft input panel (SIP) on screen keyboard	Soft input panel (SIP) on screen keyboard, Numeric keypad	Soft input panel (SIP) on screen keyboard	Onscreen keyboard	Onscreen keyboard (plus optional keyboard with trackpad accessory)	Soft input panel (SIP) on screen keyboard, Transcriber handwriting recognition, Optional keyboard accessory
Integrated Barcode scanner	No	Yes (1050LE and 1050XE)	Yes (Barcode handhelds)	No	No	No
Integrated Bluetooth	Yes	Yes	Yes	Yes	Yes	Yes
Integrated Wi-Fi	Yes	Yes	Yes	Yes	Yes	Yes
Integrated camera	5 MP	5 MP	8 MP with flash	8 MP (Wi-Fi model) / 13 MP (4G model)	5 MP, outward facing	5 MP, outward facing
Orientation sensors	Yes	No	No	Yes	Yes	No
Integrated rangefinder	Yes	No	No	No	No	No
Cellular modem	Yes (GSM/CDMA)	Yes (1050XE only)	Yes (Juno 5D only)	Yes (4G model)	Yes (4G & Cirronet models)	Integrated 3.75G WWAN data modem (Optional)
Cellular voice capability	No	No	Yes (Juno 5D only)	Yes (4G model)	No	No
Weight	963 g (2.12 lb) 1080 g (2.38 lb) (incl. rangefinder)	0.59 kg / 1.3 lb	0.4 to 0.55 kg (0.84 to 1.21 lb) depending on configuration	0.27 to 0.31 kg (0.61 to 0.69 lbs) depending on model	1.4 kg / 3.08 lbs	1.2 kg / 2.6 lb
Battery life	Up to 10.5 hours: Internal GNSS, and backlight	15 hours	8 hours	10 to 15 hours depending on model: Internal GPS, and backlight	15 hours	5+ hours standard battery 10+ hours extended battery
Ruggedness	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	Withstands 1.2 m / 4 ft drop	Withstands 1.2 m / 4 ft drop
Environmental	Dust-proof and resistant to heavy wind-driven rain per IP65 standard	Impervious to dust and submersible in water per IP68 standard	Impervious to dust and submersible in water per IP68 standard	Protected from dust and moisture ingress per IP67 standard	Dust-proof and resistant to heavy wind-driven rain per IP65 standard	Dust-proof and resistant to heavy wind-driven rain per IP65 standard
Operating temperature	–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 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

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



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	No
EVEREST multipath rejection	Yes	Yes	Yes
GNSS Antenna	Fully integrated	Integrated or external	DA1 digital antenna only
RTX compatible	Yes	Yes (Trimble 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 lb	0.187 kg / 0.4 lb	—
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	—

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