



FIELD SOFTWARE	TerraSync™ Standard edition software	TerraSync™ Professional edition software	Trimble GPSCorrect™ extension	Trimble GPS Analyst™ extension
Data collection	Yes	Yes	Yes	Yes
Data maintenance	No	Yes	Yes	Yes
Code phase data collection	Yes	Yes	Yes	Yes
Data collection for DeltaPhase™ postprocessing	Yes	Yes	Yes	No
H-Star data collection	Yes	Yes	Yes	Yes
Carrier phase data collection	Yes	Yes	Yes	No
RTK data collection	No	Yes	No	No
Navigation	Yes	Yes	No	Yes
Customization	No	No	Available via Esri ArcPad	Available via Esri ArcObjects
Data storage format	Trimble SSF	Trimble SSF	Esri ArcPad Shapefile or AXF file and Trimble GPSCorrect SSF	Personal Geodatabase
Field devices	Windows® PC, Windows Mobile version 6, 5.0, and 2003 devices, including all current Trimble Mapping & GIS handhelds	Windows PC, Windows Mobile version 6, 5.0, and 2003 devices, including all current Trimble Mapping & GIS handhelds	Esri ArcPad supported field devices, including all current Trimble Mapping & GIS handhelds	Windows PC
Supported GNSS receivers	All current Trimble Mapping & GIS GNSS receivers and handhelds	All current Trimble Mapping & GIS GNSS receivers and handhelds, plus Trimble 5800, Trimble R8, and Trimble R8 GNSS receivers	All current Trimble Mapping & GIS GNSS receivers and handhelds	Trimble GPS Pathfinder ProXH and ProXT receivers, plus NMEA-compliant GNSS receivers and any GNSS receiver with a supported driver that enables the receiver to work with the Trimble GPS Analyst extension
Coordinate system support	Latitude/Longitude (WGS 84), U.S. State Plane 27 (NADCON - Conus), U.S. State Plane 83 (NAD - Conus), UTM, and hundreds of additional systems are supported	Latitude/Longitude (WGS 84), U.S. State Plane 27 (NADCON - Conus), U.S. State Plane 83 (NAD - Conus), UTM, and hundreds of additional systems are supported	Esri ArcPad projection engine	Esri ArcGIS projection engine
External sensor support	No	Yes	No	No
Laser rangefinder support	No	Yes	Yes	No
IMS support	No	Yes	Yes	Yes
Background layers	No	MrSID (SID), JPEG (JPG) and JPEG2000 (JP2 and J2C), ECW, Bitmap (BMP), TIFF (TIF), Esri Shapefile (SHP), Trimble SSF (SSF)	Esri ArcPad supported vector and raster formats	Esri ArcGIS supported vector and raster formats
Simultaneous feature collection	No	No	No	Yes
Offsets	Yes	Yes	Yes	Yes, for line and polygon features
Advanced GNSS data symbology	No	No	No	Yes
Mission planning	Yes	Yes	Yes	Download from <a href="http://www.trimble.com/planningsoftware.shtml">www.trimble.com/planningsoftware.shtml</a>
VRS support	Yes	Yes	Yes	Yes

OFFICE SOFTWARE	GPS Pathfinder® Office software	Trimble® GPS Analyst™ extension
Differential correction	Code phase, carrier phase, DeltaPhase, and H-Star processing	Code phase, DeltaPhase, and H-Star processing
ShapeCorrect	Yes	Yes
Batch processing	Yes	No
Coordinate system support	Latitude/Longitude (WGS 84), U.S. State Plane 27 (NADCON - Conus), U.S. State Plane 83 (NAD - Conus), UTM, and hundreds of additional systems are supported	Esri ArcGIS projection engine
Data export	AutoCAD DXF, dBASE, Esri Shapefile, KML/KMZ (Google Earth mapping service), MapInfo MIF, Microsoft® Access MDB, MicroStation DGN, configurable ASCII. Additional formats supported via Trimble SSF and DDF data format extensions for FME.	Trimble SSF, Trimble Data Dictionary File (DDF), and additional export formats supported in Esri ArcGIS software
Data import	AutoCAD DXF, dBASE, Esri Shapefile, MapInfo MIF, Microsoft Access MDB. Additional formats supported via Trimble SSF and DDF data format extensions for FME.	Trimble SSF, schema from Trimble DDF, Esri ArcPad Shapefile or AXF file and Trimble GPSCorrect SSF
Data dictionary creation	Yes	Create feature class schema
Data storage format	Trimble SSF	Personal Geodatabase
Customization	Automation interfaces from Differential Correction and Export utilities only	Available via ArcObjects
Map display/editing	Yes	Esri ArcGIS map and editing engines
Advanced GNSS data symbology	No	Yes
Feature rebuild	No	Yes
Feature validation	No	Yes
Mission planning	Download from <a href="http://www.trimble.com/planningsoftware.shtml">www.trimble.com/planningsoftware.shtml</a>	Download from <a href="http://www.trimble.com/planningsoftware.shtml">www.trimble.com/planningsoftware.shtml</a>
Field software support	TerraSync software (Standard or Professional), Trimble GPSCorrect extension for Esri ArcPad, and applications developed with the GPS Pathfinder Tools Software Development Kit (SDK)	Trimble GPS Analyst extension field tools, TerraSync software (Standard or Professional), Trimble GPSCorrect extension for Esri ArcPad, and applications developed with the GPS Pathfinder Tools Software Development Kit (SDK)

## MAPPING & GIS PRODUCT COMPARISON

ACCURATE GIS DATA COLLECTION WHERE AND WHEN YOU NEED IT



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# Mapping & GIS Product Comparison

HANDHELD COMPUTERS WITH GNSS	GeoExplorer® 6000 series 		GeoExplorer® 3000 series 			Trimble® Nomad® 900G series 	Juno® series 				Trimble® Yuma® Rugged Tablet Computer 
	GeoXH™	GeoXT™	GeoXH™	GeoXT™	GeoXM™		Juno SD	Juno SC	Juno SB	Juno SA	
DGNSS accuracy postprocessed*	10 cm	50 cm	10 cm	50 cm	1–3 m	1–3 m	1–3 m				2–5 m
DGNSS accuracy real-time*	10 cm	<1 m	10 / <30 cm	<1 m	1–3 m	2–5 m	2–5 m				2–5 m
H-Star™ technology-capable	Yes	No	Yes	No	No	No	No				No
GLONASS-capable	Yes	Yes (Optional via Floodlight™)		No	No	No	No				No
EVEREST™ multipath rejection	Yes		Yes	Yes	No	No	No				No
Floodlight satellite shadow reduction	Yes	Yes (Optional)		No		No	No				No
Integrated SBAS	Yes			Yes		Yes	Yes				Yes (WAAS)
Integrated beacon	Optional Bluetooth® Beacon receiver		Optional Bluetooth® Beacon receiver			No	No				No
Integrated OmniSTAR	No		No			No	No				No
NMEA output	Yes (Optional)		Yes*			Yes	Yes				Yes
RTCM input	Yes		Yes			No	No				No
Operating system	Windows Mobile® 6.5		Windows Mobile® 6.1			Windows Mobile® 6.1	Windows Mobile® 6.1				Windows® 7 Professional
Processor	600 MHz TI OMAP 3503		520 MHz XScale processor			806 MHz Xscale processor	533 MHz Samsung processor				1.6 GHz Intel Atom processor
Memory (RAM)	256 MB		128 MB			128 MB	128 MB				1 GB DDR2
Screen details	10.7 cm / 4.2", color touch screen, 480x640 pixels		8.9 cm / 3.5", color touch screen, 480x640 pixels			8.9 cm / 3.5", color touch screen, 480x640 pixels	8.9 cm / 3.5", color touch screen, 240x320 pixels				17.8 cm / 7", color touch screen, 1024x600 pixels
Data storage	2 GB		1 GB			6 GB	128 MB				32 GB
Expansion slots	1 (SD / SDHC)		1 (SD / SDHC)			1 (SD / SDIO) all models; 900GL (+ CF); 900GLD (+ USB)	1 (microSD / microSDHC)				1 (SD / SDIO)
Alphanumeric data entry	Soft input panel (SIP) on screen keyboard		Soft input panel (SIP) on screen keyboard, Transcriber handwriting recognition			Soft input panel (SIP) on screen keyboard, Transcriber handwriting recognition, Numeric keypad	Soft input panel (SIP) on screen keyboard, Transcriber handwriting recognition				Soft input panel (SIP) on screen keyboard, Transcriber handwriting recognition, Optional keyboard accessory
Integrated Barcode scanner	No		No			Yes (900GLE and 900GXE)	No				No
Integrated Bluetooth	Yes		Yes			Yes	Yes	Yes	Yes	No	Yes
Integrated Wi-Fi	Yes		Yes			Yes	Yes	Yes	Yes	No	Yes
Integrated camera	5 MP		No			5 MP (900GLC, 900GLE, and 900GXE only)	3 MP	3 MP	3 MP	No	Front-facing (2 MP) / User-facing (1.3 MP)
Cellular modem	Yes (Optional)		Can be added via TDL 3G cellular modem accessory			Integrated in 900GXE, 800GX, and 800GXC models or via TDL 3G cellular modem accessory	Yes	Yes	Can be added via TDL 3G cellular modem accessory	No	Can be added via ExpressCard 34 mm slot or TDL 3G cellular modem accessory
Cellular voice capability	No		No			No	Yes	No	No	No	No
Weight	Standard editions: 925 g (2.0 lb) incl. battery 3.5G editions: 935 g (2.1 lb) incl. battery		0.80 kg / 1.76 lbs			0.56 kg / 1.2 lbs	0.24 kg / 0.54 lbs				1.4 kg / 3.1 lbs
Battery life	Up to 10 hours: Internal GNSS, and backlight	Up to 11.5 hours: Internal GNSS, and backlight	8.5 hours: Internal GPS, and backlight	10.5 hours: Internal GPS, and backlight	10.5 hours: Internal GPS, and backlight	15 hours	8 hours: Internal GPS, and backlight				8 hours
Ruggedness	Withstands 1.2 m / 4 ft drop		Withstands 1.2 m / 4 ft drop			Withstands 1.2 m / 4 ft drop	Withstands 76 cm / 2.5 ft drop				Withstands 1.2 m / 4 ft drop
Environmental	Dust-proof and resistant to heavy wind-driven rain per IP 65 standard		Dust-proof and resistant to heavy wind-driven rain per IP 65 standard			IP67 sealed against accidental immersion in water	IP4X protected against small objects >1 mm				IP67 sealed against accidental immersion in water
Operating temperature	-20 °C to 50 °C / -4 °F to 122 °F		-20 °C to 60 °C / -4 °F to 140 °F			-30 °C to 60 °C / -22 °F to 140 °F	0 °C to 60 °C / 32 °F to 140 °F				-30 °C to 60 °C / -22 °F to 140 °F

GNSS RECEIVERS	GPS Pathfinder® ProXRT receiver 		GPS Pathfinder® ProXH™ receiver 	GPS Pathfinder® ProXT™ receiver 
DGNSS accuracy postprocessed*	10 cm		10 / 30 cm	50 cm
DGNSS accuracy real-time*	10 / 30 cm		<1 m	<1 m
H-Star technology-capable	Yes		Yes	No
GLONASS-capable	Yes (optional)		No	No
Galileo GIOVE-A- and GIOVE-B-capable	Yes (visible with NMEA option using the Web Browser interface)		No	No
EVEREST multipath rejection	Yes		Yes	Yes
Integrated GNSS receiver and antenna	No, Tornado™ antenna		Yes	Yes
Integrated SBAS	Yes		Yes	Yes
Integrated beacon	Optional Bluetooth Beacon receiver		Optional Bluetooth Beacon receiver	
Integrated OmniSTAR	Yes (VBS, XP, or HP (G2) capable)		No	No
NMEA output	Yes (optional)		Yes	Yes
RTCM input	Yes		Yes	Yes
Integrated Bluetooth	Yes (cabled connection for backpack configuration is recommended)		Yes	Yes
Weight	1.55 kg / 3.42 lbs: Includes GNSS receiver and internal battery		0.53 kg / 1.16 lbs: Includes integrated GPS receiver, antenna, and battery	0.53 kg / 1.16 lbs: Includes integrated GPS receiver, antenna, and battery
Battery life	13 hours (varies with temperature)		12 hours (8 hours with Tornado antenna): Includes GPS and Bluetooth	12 hours: Includes GPS and Bluetooth
Ruggedness	Withstands 1 m / 3.28 ft drop		Withstands 1.22 m / 4 ft drop	Withstands 1.22 m / 4 ft drop
Environmental	IP67 for submersion to depth of 1 m / 3.28 ft		Wind-driven rain and dust resistant to IP54 standard	Wind-driven rain and dust resistant to IP54 standard
Operating temperature	-40 °C to +65 °C / -40 °F to 149 °F		-20 °C to 60 °C / -4 °F to 140 °F	-20 °C to 60 °C / -4 °F to 140 °F

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