



### KEY FEATURES

Cost-effective fully integrated solution

3 megapixel camera

High-sensitivity GPS receiver

Long life battery for all-day use

Lightweight and compact

### COMPACT ASSET MANAGEMENT SOLUTION FOR YOUR ENTIRE WORKFORCE

Arm your crew with the durable, compact field computer that integrates a rich array of functionality, including photo capture and high-yield GPS positioning. The Juno™ SB handheld is the affordable way to maximize the productivity of your entire workforce.

For asset management and inspection applications, the Juno SB handheld is the perfect tool. A photo provides accurate, detailed documentation of the condition of an asset, while the integrated GPS receiver records the asset's location.

#### Value for large deployments

The Juno SB handheld is an economical solution ideally suited to utility companies, government organizations, and agencies that are looking to equip their entire field workforce while managing strict budgets. A complete range of cost-effective price points are available that combine the Juno SB handheld with your required field application software.

While minimizing expenditure, you won't have to compromise on features or functionality. The Juno SB handheld includes a 533 MHz processor, 3.5 inch display, and a 3 megapixel camera. Now each member of your workforce has the ability to augment their GPS information with photographs while performing GIS data collection, maintenance, and inspection activities.

Standard wireless capabilities include built-in Bluetooth®, giving you cable-free connections to peripherals such as RFID readers and barcode scanners, and Wi-Fi wireless technology that enables you to access your organization's secure network to get the latest data. No matter what your set-up, the Juno SB handheld gives you flexible connectivity methods to meet your business needs.

#### The ultimate in mobility

The Juno SB handheld is designed to keep your workforce mobile with the convenience of a single integrated, pocketable device that avoids the need to carry a camera, a GPS data collector, and a PDA.

The long life battery of the Juno SB handheld allows GPS data collection for a full working day, without the need for recharging. The battery is also field-replaceable, for extended periods away from a power source.

You never have to worry about running out of memory in the field with the Juno SB handheld's microSD card slot. Compatibility with high capacity microSD cards provides ample storage for large applications, data and raster background maps, or even entire projects.

#### Productivity for field and office

In applications such as natural resource data collection, public works asset inspection, and mobile workforce management where high productivity is critical, the Juno SB handheld is ideal. Incorporating a high-sensitivity GPS receiver, it has been specifically designed to maximize yield of positions in hostile environments such as under forest canopy and up against buildings.

For these types of applications, the Juno SB handheld can be used in real time with its integrated SBAS receiver to achieve 2 to 5 meter positional accuracy. When higher accuracy is required to meet company or regulatory standards, the field data collected with the Juno SB handheld can be postprocessed with the new Trimble® DeltaPhase™ technology to achieve 1 to 3 meter<sup>2</sup> accuracy.

As part of the Trimble family of GPS solutions, the Juno SB handheld is fully compatible with Trimble's entire range of Mapping & GIS software, giving you a choice of field-proven software solutions for professional GIS data collection and maintenance. You can easily deploy the Juno SB handheld alongside your current Trimble equipment, and maintain the same workflows and policies.

The Juno SB handheld's Windows Mobile® 6.1 operating system includes personal productivity tools such as Word Mobile, Excel® Mobile, Internet Explorer® Mobile, and Outlook® Mobile, allowing a seamless exchange of data between the field and office.

#### The lightweight heavyweight

Equip each of your field workers with the durable, lightweight field computer that really packs a punch. The Juno SB handheld is the one tool your mobile workforce can't afford to be without.



# JUNO SB HANDHELD

## STANDARD FEATURES

### System

- Windows Mobile 6.1 in Chinese (Simplified), English, French, German, Italian, Japanese, Korean, Portuguese (Brazilian), Russian, or Spanish
- 533 MHz Samsung processor
- Integrated Bluetooth v2.0 wireless technology
- Integrated 802.11b/g Wi-Fi wireless technology
- Integrated digital camera (color, 3 megapixel resolution)
- 128 MB RAM
- 128 MB non-volatile Flash data storage
- microSD (microSDHC compatible) memory card slot
- QVGA display (240 x 320), sunlight-readable color touch screen
- All-day internally rechargeable and removable Li-Ion battery
- Integrated speaker and microphone
- Audio jack

### GPS

- Integrated high-sensitivity GPS/SBAS<sup>1</sup> receiver and antenna
- 2 to 5 meter accuracy after real-time differential correction
- 1 to 3 meter accuracy after postprocessing<sup>2</sup>
- NMEA and SiRF protocol support

### Standard Software

- Microsoft Office Mobile, includes Excel Mobile, Word Mobile, Internet Explorer Mobile, Outlook Mobile, and PowerPoint® Mobile
- Adobe Reader
- Transcriber (handwriting recognition)

### Standard Accessories

- AC Power supply with international adapter kit
- USB data cable
- Stylus (2-pack)
- Wrist lanyard
- Rechargeable Li-ion battery
- Quick Start Guide
- Getting Started CD, containing User Guide

## OPTIONAL FEATURES

### Optional Software

- Trimble TerraSync™ software
- Trimble GPS Pathfinder Office software
- Trimble Positions™ software suite
- Trimble GPScorrect™ extension for Esri ArcPad software
- Trimble GPS Analyst™ extension for Esri ArcGIS for Desktop software
- Trimble Municipal Reporter™ system<sup>3</sup>
- Trimble TrimPix™ Pro system
- Trimble GPS Controller software for controlling NMEA output and in-field mission planning
- Custom applications built with Mobile GIS Developer Community software development kits (SDKs)

### Optional Accessories

- Vehicle power adapter
- Vehicle mount for windshield or dash
- External GPS patch antenna
- Protective OtterBox Defender Series case with belt clip
- Anti-glare screen protectors (2-pack)
- Clear screen protectors (2-pack)
- Replacement AC Power supply with international adapter kit
- Replacement Li-Ion battery
- Replacement Stylus (2-pack)

## TECHNICAL SPECIFICATIONS

### Physical

Size	12.9 cm x 7.4 cm x 3.0 cm (5.1 in x 2.9 in x 1.2 in)
Weight	0.23 kg (0.52 lb) with battery
Processor	533 MHz Samsung S3C2443 processor
Memory	128 MB RAM and 128 MB internal Flash storage
Battery	Internal 2600 mAh lithium-ion, rechargeable in unit Power <sup>4</sup>
	Low (no GPS, backlight ON <sup>5</sup> )
	Normal (with GPS and backlight ON)

### Environmental

Temperature	
Operating	0 °C to +60 °C (32 °F to 140 °F)
Storage	-20 °C to +70 °C (-4 °F to 158 °F)
Drop	76 cm (2.5 ft) drop 2 drops per 6 sides at ambient temperature 23 °C (73 °F)
Tumble	50 cycles (100 drops) x 50 cm (1.64 ft), 5 cycles/minute
Casing	IP4X. Protected against small objects >1 mm

### Input/output

Expansion	microSD Card slot (microSDHC compatible)
Display	8.9 cm (3.5 in) QVGA (240 x 320 pixel) TFT 16 bit (65,536) colors, LED backlight
Interface	Touch screen, hardware control keys, power status LED Audio system events, warnings, and notifications Soft Input Panel (SIP) virtual keyboard and handwriting recognition software
Audio	Microphone and speaker, record and playback utilities Industry-standard 3.5 mm stereo earphone jack
I/O	USB client v2.0 compliant
Radios	Bluetooth 2.0 <sup>6</sup> , Wi-Fi 802.11b/g
Digital Camera	3 megapixel color camera with autofocus JPEG photo format, WMV video format

### GPS

Channels	12 (L1 code only)
Integrated real-time	SBAS <sup>1</sup>
Update rate	1 Hz
Time to first fix	30 seconds (typical)
Protocols	SiRF, NMEA-0183

### Accuracy (HRMS)<sup>7</sup> after differential correction

Code Postprocessed	1-3 m <sup>2</sup>
Real-time (SBAS <sup>1</sup> )	2-5 m

<sup>1</sup> SBAS (Satellite Based Augmentation System). Includes WAAS (Wide Area Augmentation System) available in North America only, EGNOS (European Geostationary Navigation Overlay System) available in Europe only, and MSAS available in Japan only.

<sup>2</sup> Requires Trimble DeltaPhase technology, as supported in Trimble GPS Pathfinder Office software version 4.20 and later, or Trimble Positions Desktop add-in 10.1.0, or Trimble GPS Analyst Extension for Esri ArcGIS for Desktop software, version 2.20 and later.

<sup>3</sup> Internet access required for Municipal Reporter system workflows.

<sup>4</sup> Using wireless technology, such as Bluetooth or wireless LAN will consume additional battery power.

<sup>5</sup> Backlight setting at 70% brightness.

<sup>6</sup> Bluetooth and wireless LAN type approvals are country specific. Juno series handhelds have Bluetooth and wireless LAN approval in the USA and EU. For other countries please consult your local Reseller.

<sup>7</sup> Horizontal Root Mean Squared accuracy. Requires data to be collected using vertical mounting, minimum of 4 satellites, PDOP mask at 99, SNR mask at 12 dBHz, elevation mask at 5 degrees, and reasonable multipath conditions. Ionospheric conditions, multipath signals or obstruction of the sky by buildings or heavy tree canopy may degrade precision by interfering with signal reception. Accuracy varies with proximity to base station by +1 ppm for postprocessing and real-time.

Specifications subject to change without notice.

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