Trimble Juno T41 Rugged Handheld / Smartphone

The Trimble® Juno® T41™ offers combined feature options to provide customers the handheld that meets their specific needs in the field: Enhanced GPS, 1D/2D barcode imaging, SmartPhone capability or not, choice of Windows or Android operating systems, rugged dust and water ingress protection ratings of IP65 or IP68, and Ultra-High Frequency RFID capabilities.

The Juno T41 is designed to be long-lasting, from the battery to the processor, and to work through demanding situations that would sideline lesser handhelds. The lithium-ion polymer battery lasts all day for most users, and an optional external battery pack is available for solutions requiring all-day wireless connectivity and processor-intensive applications. It is built to MIL-STD-810G standards and available in your choice of IP65 or IP68 ratings to survive hostile conditions in the field. It can withstand driving rain and liquid immersion, corrosive environments, dust, shock, drops, vibration, prolonged UV exposure, and extreme temperatures and altitudes.

The Juno T41 includes an 800MHz processor with 512MB RAM and up to 32GB of storage to run software applications quickly and dependably. Users can choose between the Windows Embedded Handheld (WEHH) v 6.5 or Android 4.1 "Jelly Bean" operating systems. The 4.3" high resolutionCorning® Gorilla® Glass panel capacitive touchscreen display is sunlight-readable and brilliantly clear. Multi-touch support allows complex selections and controlled zoom to optimize the user experience with maps and detailed information. A capacitive stylus is available as an optional accessory. Users can upload and download data from the cloud using Wi-Fi or optional WWAN connections. The 8 megapixel camera can automatically include time and location data from the GPS receiver.

Physical connection to other electronic devices is supported via the Juno T41 handheld's custom connector. This custom connector allows for the slim design while providing easy connectivity to a USB device, a 9-pin Serial device or a battery charger.

SmartPhone

The Juno T41 handheld is a powerful, connected, and compact solution for mobile workforces, delivering the convenience and ease-of-use of a SmartPhone, with durability and long-term support that SmartPhones simply do not offer. Its slender, ergonomic design is easy to grip and allows for all-day use by hard-working professionals and consumers in demanding environments. The Juno T41 has voice, SMS text, and 3.75G cellular data transfer capabilities on GSM cellular networks worldwide.

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Ehanced GPS

The Juno T41 offers options for Enhanced GPS using SBAS and a GPS Accuracy Algorithm. Under the correct conditions, Enhanced GPS allows data collection with 1-2 meter accuracy in real-time, while gathering raw data output for post-processing applications. The Juno T41 Enhanced GPS solution, using the GPS L1 band, offers reliable performance in reduced signal environments. Field workers who have to move from place to place to collect distant assets won't have to waste time waiting for a system warm-up: the Juno T41 with Enhanced GPS tests at an average cold start of less than 33 seconds, and a warm start of less than 3 seconds. It is also designed to work with Trimble VRS, a service of Trimble Positioning Services.

1D/2D Barcode Imager

The Juno T41 offers an optional 1D/2D barcode imager. Trimble Scan Technology reads a wide range of traditional 1D barcodes, as well as 2D matrix codes. It also digitally captures signatures and images. All of these features are customizable using the Trimble "Scan Agent" application. Enterprise solutions can also use the Software Development Kit (SDK) to optimize for specific customer requirements. Omni-directional reading capabilities, along with high motion tolerance, will allow quick, accurate scanning — no matter what the angle or orientation the unit is to the barcodes. The white light illumination with red LED sight line simulates laser scanner performance and provides fool-proof barcode reading in real world conditions: dirt and mud, glass and bright surfaces, harsh and dark conditions, and partially obstructed barcodes or matrices.

Ultra-High Frequency RFID

The Juno T41 R integrates the Trimble ThingMagic Mercury6e-Micro (M6e-Micro) RFID reader into its small, compact form factor. Using EPCglobal Gen 2 RFID technology, the T41 R rapidly reads tags at different frequencies almost simultaneously, for accurate reads in real world conditions.

The Juno T41R can read a single square 5cm squared (2 square inch) UHF RFID tag more than 3.5 meters (11+ feet) away from the unit in unobstructed space. In more challenging environments with higher levels of interference, it reads 5cm squared tags consistently between 1-2 meters. The application reports the tagged asset in order of signal strength.

The Juno T41R is location aware, ready for use in different regions around the world. The FCC Certified and ACMA Certified T41R supports the 902 to 928 MHz and 920 to 926 MHz frequency bands, respectively, and is ready for use in the United States, Canada, Australia and New Zealand. The ETSI Certified T41R uses the 865.6 to 867.6 MHz range and is ready to use in European RFID frequencies.

Software Developer Kits

Software Developer Kits for both the Windows Embedded Handheld and the Android operating systems enable custom application software to easily interface with the many built-in sensors, radios, and data ports of the Juno T41 handheld. Live technical support is available for systems integrators and software developers. The Juno T41 standard software includes Trimble applications that enable user control of integrated features.

Today's business isn't limited to inside the four walls. No matter the industry, if workers spend work hours outdoors, a rugged handheld is a cost-effective piece of equipment. Integrating the Juno T41 with the right set of features and functionality will take applications and workforce efficiency to the next level.

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Features

- Rugged design certified to MIL-STD-810G and IP65 or IP68
- Choice of operating systems: Windows Embedded Handheld 6.5 or Android 4.1
- 4.3" WVGA sunlight-readable display protected by Gorilla Glass
- Multi-touch user interface with capacitive stylus compatibility
- 8 megapixel camera with dual LED flash and geo-tagging
- 3.75G cellular data, text, and voice capability
- Bluetooth and Wi-Fi b/g/n
- GPS receiver with 2 - 4 meter accuracy
- Optional enhanced GPS: accuracy 1-2 Meters in real time
- Optional 1D/2D barcode imager
- Optional ultra-high frequency RFID
- MCX port for optional External GPS Antenna to increase yield opportunity
- Accelerometer
- Electronic Compass
- Robust custom port with USB 2.0 full speed protocol
- Conversion cables available for 9-pin Serial port or USB host port
- Full-day battery life, and an optional External Battery Pack for even longer run-time
- Support for 10 languages: English, Chinese (simplified), French, German, Italian, Japanese, Korean, Portuguese, Russian and Spanish

Product Specifications

Operating System:

- Windows Embedded Handheld 6.5
- Android 4.1 "Jelly Bean"
- Language Support: Chinese (Simplified), English, French, German, Italian, Japanese, Korean, Portuguese, Russian or Spanish

Processor:

- 800MHz or 1GHz, Texas Instruments DM3730

Flash Storage:

- 8GB, 16GB, or 32GB

Memory:

- 512MB

Display:

- 4.3 in (10.9 cm), 480 x 800 pixel, WVGA TFT
- Sunlight-readable Gorilla Glass display
- Light sensor to auto-adjust display brightness
- Capacitive multi-touch interface

Wireless:

- Optional integrated 3.75G cellular data, text and voice capability
- Bluetooth 2.1 with Enhanced Data Rate
- Wi-Fi (802.11 b/g/n)

Navigation:

- GPS Receiver, 2-4 meter accuracy (WAAS/SBAS Capable)
- Optional or <1 meter accuracy (SBAS Capable: WAAS & EGNOS)
- MCX port for optional External GPS Antenna
- Electronic Compass
- Accelerometer

Expansion Slots:

- MicroSD memory card slot (supports SDHC up to 32GB)
- SIM card slot

I/O Interface Ports:

- 3.75mm audio jack
- MCX GPS antenna port
- Custom port that supports USB 2.0 Host
- USB Client
- 15VDC power
- Serial connections

Integrated Features:

- 8 megapixel camera with geo-tagging and dual LED flash
- Integrated speaker and microphone

Power Supply:

- 11.1V, 2500mAh
- 27.8Wh Li-ion rechargeable pack
- International AC Charging Kit

Optional 1D/2D Barcode Imager:

- White light illumination and red LED-based aimer for ease of use
- High-motion tolerance to deliver quick imaging responsiveness
- Omni-directional reading capabilities for real world use conditions
- Rapid Scanning Capability for high read rates no matter what the bar code angle or orientation is in relation to the unit
    - —1D supported symbologies:EAN/UPC, GS1 Databar (limited expanded & omnidirectional), Code 39, Code 128, UCC/EAN 128, ISBN, ISBT,Interleaved/Matrix/Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, postal codes (Australian Post, BPO, Canada Post, Dutch Post, Japan Post, PostNet, Sweden Post)
    - —2D supported symbologies: Data Matrix, PDF417, Micro PDF 417, Codablock, Maxicode,QR, Aztec
- Multicode reading
    - —data editing
    - —image capture
    - —scanning barcodes on mobile phone screens
    - —illumination, aiming, presentation modes

Optional Real-Time Enhanced GPS:

- 1-2 meter Real-time accuracy with no post-processing or subscription fees required
- Trimble Positioning Services VRS Capable
- Supports GPS L1 band
- Raw Data Output available for post-processing applications
- Average cold start < 33 seconds; Average Warm Start< 3 seconds
- Reliable performance in reduced signal environments

Optional Ultra-High Frequency RFID:

- Integrated ThingMagic M6e-Micro module
- Integrated orientation insensitive antenna for fast and accurate tag reads
- Power transmission up to +30 dBm (1 Watt) power
- Choice of 865-868 MHz or 902-928 MHz
- Supports EPCglobal Gen 2 (ISO 18000-6C) protocol

Application Developer Support:

- Software Developer Kit with documentation for WEH 6.5
- Software Developer Kit with documentation for Android 4.1

Your Source For Rugged Mobile Computers

Windows Embedded Handheld Software:

- Trimble SatViewer (GPS interface application)
- Trimble CellStart (WWAN configuration application)
- Microsoft Office Mobile 2010 (Word Mobile, Excel Mobile,
- PowerPoint Mobile, Outlook Mobile)
- Internet Explorer Mobile 6
- Microsoft My Phone with SMS Text Messaging
- Camera control application
- 1D/2D Barcode reader camera application
- Flashlight mode control application
- Calculator
- Calendar
- Microsoft Pictures & Videos
- Windows Media Player
- Windows Live Messenger
- Microsoft Task Manager & Notes
- Adobe Reader LE 2.5

Android 4.1 "Jelly Bean":

- App Launcher: Terrain Navigator Pro
- Email
- Phone & SMS Text Messaging
- Picture & Video Gallery
- Multimedia Player
- Web Browser
- Flashlight mode control application
- Camera control application
- Flashlight mode control application

Standard Accessories:

- International AC Charging Kit
- T41 USB Cable
- Wrist Strap
- Ultra Clear Screen Protectors (qty 2) Kit
- SIM/SD Card Tool
- Quick Start Guide

Other Accessories:

- 9-pin Serial Adapter
- USB Host Adapter
- Capacitive Stylus with Tether
- External Battery Pack
- Port Cover
- Ultra Clear Screen Protectors (qty 10) Kit
- Anti-reflective Screen Protectors (qty 2) Kit
- Vehicle Charging Kit
- Capacitive Touchscreen Gloves
- Trimble Headset
- External GPS Antenna

Environmental Specifications:

- Water: Survives immersion at 6.6ft (2m) for one hour (gray models), IEC-60529 IPx8; Survives driving rain and water spray (yellow models), IEC-60529 IPx5, water jet 12.5mm dia @ 2.5 - 3m
- Sand & dust: Protected against dust, IEC-60529 IP6x, dust chamber with under-pressure
- Drop: Survives multiple drops of 4ft. (1.22m), MIL-STD-810G, Method 516.6, Procedure IV, Transit Drop
- Operating Temperature: -22 °F to 144 °F (-30 °C to 60 °C); MIL-STD 810F, Method 502.5, Procedure I, II, III (Low Temp Operating -30 C); Method 501.5, Procedure I & II (High Temp Operating 60 °C)
- Storage Temperature: -40 °F to 158 °F (-40 °C 70 °C); MIL-STD 810F, Method 501.4, Procedure I; MIL-STD 810F, Method 502.4, Procedure I, II, III Method 502.5, Procedure I, II, III (Low Temp Storage -40 °C); Method 501.5, Procedure I & II (High Temp Storage 70 °C)
- Temperature Shock: Cycles between -22 °F and 144 °F (-30 °C and 60 °C), MIL-STD-810G, Method 503.5, Procedure I-C
- Humidity: 90% relative humidity with temperatures between 22 °F and 144 °F (30 °C and 60 °C), MIL-STD- 810G, Method 507.5, Procedure II
- Altitude: 15,000ft (4,572m) at 73 °F (23 °C) to 40,000ft (12,192m) at -22 °F (-30 °C), MIL-STD-810G, Method 500.5, Procedure I, II & III
- Vibration: General minimum integrity and loose cargo tests, MILSTD-810G, Method 514.6, Procedure I & II, Category 5
- Solar Exposure: Survives prolonged UVB exposure, MIL-STD-810G, Method 505.5, Procedure II
- Chemical Exposure: Resistant to mild alkaline and acid cleaning solutions, fuel hydrocarbons, alcohols and common vehicle and factory machine lubricants

Dimensions, Weight & Color:

- C,X,M: 6.1in × 3.2in × .9in (15.5cm x 8.2cm x 2.5cm)
- C,X,M: 13.5oz (.4kg), including battery
- G: 8.26in × 3.2in × 1.26in (20.98cm x 8.14cm x 3.19cm)
- G: 16.69oz (.48kg), including battery
- S,R: 8.26 in × 3.2 in × 1.26 in (20.98 cm x 8.14 cm x 3.19 cm)
- Black with Yellow or Black with Gray

Certifications:

- FCC, CE, R&TTE, IC (Canada), A-tick, C-tick, GCF compliant, RoHS compliant, Section 508 compliant, PTCRB, SAR, AT&T network compatible, Wi-Fi Alliance certified, CCX, USB 2.0 Full Speed, MILSTD-
- 810G, IP65/IP68, MIL-STD-461E

Warranty:

- 12-month limited warranty

Consider purchasing these additional items to make your new portable computer more efficient, convenient, and a complete mobile solution. Pricing and information specific to your make and model can be found on our website, or you can discuss your options with your sales professional for expert guidance and suggestions. Not all of these additional items are available for all types or brands of portable computer.

Additional RAM Memory: Adding additional RAM memory is often the easiest and least expensive way to upgrade your computer for a significant boost in performance. The computer's RAM memory is its workspace, or where all of the instructions it needs to act on are stored temporarily.

Additional Storage: A computer's hard drive stores your operating system, programs and files. Hard drive space is measured in gigabytes (GB) and the higher the GB level the greater the collective file size of everything you can save on the computer. Some computer models offer spare, removable hard drives, while others offer an external hard drive.

External Drives: Some computer models come with a DVD/CD Multi drive, meaning you can read and write CD's and DVD's. Other computer models require an external USB drive. Also, some manufacturers offer an external floppy disk drive.

Power Options: Having additional power options available will keep you from running out of power at just the wrong time, there are several options available:

Additional AC Adapter – A convenient extra AC Adapter with Power Cord allows you to keep one at home and one at the office, no need to carry it back and forth.

Automobile Adapter – The automobile power adapter, also known as a cigarette lighter adapter, allows you to power your portable computer while in your vehicle, as well as charge your battery. Some of these adapters can also be used on an airplane.

External Battery Charger – The external battery charger allows you to keep your battery charged, it does not come with an AC Adapter – you can use the one that comes with the computer or purchase an additional one.

Spare Batteries - Purchase additional or replacement batteries to ensure you will always have one available. Some computers also have a place for a secondary battery, such as in the media bay. Check with your sales professional if you would like more information on these options for your model.

Mobile Printers and Scanners - A mobile printer or scanner increases your efficiency, no more running back to the office to print documents or receipts or to scan information to your computer. Our lineup of mobile printers are ready to go anywhere, they are small, lightweight, and available in different output sizes. Whether you need a full size page or just a receipt, we have the mobile printer or scanner for you.

Security Options – Keeping your investment secure is a priority, and there are several options available. Depending on the computer & model these include fingerprint scanner, smartcard reader, cable lock slot etc.

ComputraceComplete – (LoJack for your portable computer) – Computrace works behind the scenes to silently and securely contact the Absolute Monitoring Center. Using any type of internet connection, the computer makes contact every 24 hours to report its location. If a computer is reported missing or stolen, the machine is flagged to call in every 15 minutes and then the Absolute Recovery Team goes to work. The team provides law enforcement with tracking information to pinpoint the physical location of the computer and documentation needed to obtain subpoenas and procure search warrants. However, not every computer manufacturer offers computrace.

Targus DEFCON Notebook Computer Locks – The Targus DEFCON Notebook Computer Lock comes in either a cable or key lock. The lock is a 6 ft. steel cable that is cut resistant galvanized steel and can be wrapped around any secure object and attached to your cable lock slot that is built into most notebook computers. Any attempt to remove the lock will visibly damage the computer, preventing resale therefore discouraging theft. Don't let your computer be one of the nearly 1,000 portable computers stolen every day.

Other Accessories – There are many accessory items available to make using your computer more convenient and efficient, as well as user friendly. Some of these items include: carry cases designed for your model, port replicators making it easy

to create a "desktop" environment or adding additional ports to your computer, extra stylus pens so a misplaced or forgotten pen won't slow you down, and protector films to ensure your display screen stays clear and clean.

Vehicle Docks and Mounts - Vehicle mounts hold your computer safely in place and allow for safe and comfortable use while in a vehicle. With custom fit bases, height adjustable poles, and docking station and you can run antennas, use the vehicle battery or add other peripherals for a complete mobile solution.

Warranty Extensions & Upgrades – Some warranty options and upgrades are only available at time of product purchase, but there are some manufacturers that will allow upgrades or extensions to be purchased at a later time.

Product Shots

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