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Customer FAQs for the Juno T41 Rugged Handheld Computer

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What is the Trimble Juno T41?

The Trimble Juno T41 is an ultra-rugged smartphone inspired handheld computer for data collection and mobile field work.

The Trimble Juno T41 is offered in a range of configurations; optional features include a 3.75G smart phone capability. The Juno T41 brings a 4.3" capacitive touchscreen with multi-touch user interface and a sunlight-readable display. It offers processing power second to none with up to 1 GHz processor and up to 512 RAMand 16G of on-board Flash storage, a high resolution sunlight-readable screen, and a long-life battery that can run the device all day on a single charge. Featuring your choice of Windows Embedded Handheld (WEHH) or Android "Gingerbread" operating system, and with built-in Cisco Certified Wi-Fi and Bluetooth wireless technology, the Trimble Juno T41 offers powerful performance and all-in-one feature integration for high productivity no matter what the conditions.

What are the key features of the Trimble Juno T41?

- Trimble Juno T41 is built for superior performance as an all-in-one device, to be used in any environment, including harsh conditions.
- Choice of operating systems: Windows Embedded Handheld 6.5 or Android 2.3.4 "Gingerbread"
- 4.3" WVGA Sunlight-readable Gorilla® Glass Display
- Multi-Touch User Interface with Conductive Stylus Compatibility
- 8 MP camera with dual LED flash and geo-tagging
- 3.75G cellular data, text and voice capability
- 1 GHz TI OMAP processor with up to 512 MB RAM and 16 G on board Flash storage
- Bluetooth and Wi-Fi b/g/n with Cisco certified extensions v4
- GPS receiver with 2 - 4 meter accuracy
- MCX GPS Antenna port for increased yield opportunity

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- Electronic Compass & Accelerometer

What different configurations are available for the Juno T41?

The Trimble Juno T41 handheld is offered in five models with a variety of options, as illustrated in the chart below. (Note: each model is physically different; you cannot upgrade from one model to another.)

Part Number	Color / IP Rating	O.S.	CPU	RAM/ Flash	Bluetooth	Wi-Fi	GPS	8 MP Camera	Phone / WWAN
T41MLN-TGW-00	IP68	WEHH	800 MHz	256 MB / 8 GB			2-4 m		
T41MLN-TGA-00		ANDROID							
T41CLN-TYW-00	IP65	WEHH	800 MHz	256 MB / 8 GB	•	•	2-4 m	•	
T41CLN-TYA-00		ANDROID							
T41CLN-TGW-00	IP68	WEHH							
T41CLN-TGA-00		ANDROID							
T41XLN-TYW-00	IP65	WEHH	1.0 GHz	512 MB / 16 GB	•	•	2-4 m	•	•
T41XLN-TYA-00		ANDROID							
T41XLN-TGW-00	IP68	WEHH							
T41XLN-TGA-00		ANDROID							

Can the Juno T41 be used for voice calls?

Yes, if using the model with the optional 3.75G for cellular data, text and voice capability. With this model, the unit can be used just like any other smartphone on the market.

What operating systems does the Juno T41 support?

The Juno T41 is available in two operating system choices: Windows Embedded Handheld and Android 2.3.4 “Gingerbread”. Both Operating Systems have Software Development Kits with Documentation available.

How does the operating system language provisioning feature work?

- When the Juno T41 is turned on for the first time, the operating system prompts the user to select one of ten available languages: English, Simplified Chinese, Japanese, Korean, Spanish, Portuguese (Brazilian), German, French, Italian and Russian. This is a one-time action and cannot be undone.

What level of accuracy can I expect with my Trimble Juno T41?

The device is designed to achieve 2 to 4 meter accuracy with its integrated antenna, with SBAS corrections.

What does SBAS mean for the Trimble Juno T41?

All Juno T41 models that have an integrated GPS receiver will support SBAS (Satellite Based Augmentation Systems) satellites under normal conditions. SBAS is an augmentation technology for GPS, which calculates GPS integrity and correction data with RIMS (Ranging and Integrity Monitoring Stations) on the ground and uses geostationary satellites (GEOs) to broadcast GPS integrity and correction data to GPS users.

There are several compatible SBAS systems available around the world including:

- WAAS (Wide Area Augmentation System) for North America
- MSAS (Multi-Functional Satellite Augmentation System) for Asia
- EGNOS (European Geostationary Navigation Overlay Service)

What GPS input/output protocols are supported by the Trimble Juno T41?

Protocol	Type
NMEA	Input/output, ASCII, 0183, 2.3 (compatible to 3.0)
UBX	Input/output, binary
RTCM	Input, 2.3

What is RTCM?

The RTCM (Radio Technical Commission for Maritime Services) protocol is a unidirectional protocol (input to thereceiver) that is used to supply the GPS receiver with real-time differential correction data (DGPS).

Can I use an external antenna with my Trimble Juno T41?

The Trimble Juno T41 has an MCX GPS antenna port for increased yield opportunity. This will provide more access to satellite information in areas of cloud or tree cover.

Is raw GPS data available?

Raw data output is supported at an update rate of 5 Hz. The raw data stream can be used in external applications that offer precision positioning, real-time kinematics (RTK) and attitude sensing.

What connectivity options does the Trimble Juno T41 support?

All Trimble Juno T41 models, except the M, have integrated Bluetooth and Wi-Fi wireless technology. The X model is equipped with a 3.75 cellular modem for connecting to the Internet and making phone calls without the need for a separate device.

What can I use the Trimble Juno T41's Wi-Fi capabilities for?

Trimble Juno T41 handheld computers that have an integrated Wi-Fi wireless Local Area Network (WLAN) radio can be used to receive data anywhere within the range of a Wi-Fi access point. Wi-Fi and 802.11g are sometimes referred to as wireless Ethernet. A Wi-Fi connection can be used to connect to the Internet (at broadband speeds) through an 802.11b or 802.11g or 802.11n access point. With Cisco Certified Xtensions v4, the T41 supports a varity of security options. In order to set Authentication, Encryption Types, EAP Authentication and Inner Authentication, the Summit Wireless Manager must be enabled and configured.

When there is an active connection to a Wi-Fi access point, power consumption increases and the battery will discharge more rapidly.

What can I use a Trimble Juno T41 Bluetooth capabilities for?

The Trimble Juno T41 has an integrated Bluetooth radio that you can use to establish cable-free connections to other Bluetooth devices that are within 10 meters.

Using a Bluetooth connection, you can communicate with Bluetooth-enabled devices such as mobile phones, desktop computers and more. You can also communicate with Bluetooth-enabled peripheral devices instead of serial or USB connections. When there is an active connection to another Bluetooth device, power consumption increases and the battery will discharge more rapidly.

What are the functions of the integrated digital camera?

The Trimble Juno T41 includes an 8 megapixel integrated digital camera with dual LED flash and geo-tagging. The camera is accessed through an application that is pre-installed with the operating system. The camera features a variety of shooting modes to make it easier to capture images in different lighting conditions, and it can also record video with audio.

The 8-megapixel sensor can capture images with low, medium, or high compression, and in a choice of resolution from 320x240 to 2592x1944 pixels.

The camera uses a Trimble-developed graphical User Interface for advanced features such as time and date stamping, digital zoom and geo-tagging with exif data.

How are the Trimble Juno T41 handhelds powered?

The Trimble Juno T41 is supplied with a built in, rechargeable 3300 mAh lithium-ion battery that provides up to 12 hours of battery life in normal use (including wireless radios and GPS). The battery is internally rechargeable using the international power supply that comes with the system. An optional External Battery Pack can be provided for even longer run time.

What types of I/0 does the Juno T41 support?

The Juno T41 has a rubust, customer I/O port that supports USB host, USB client or 9-pin Serial data connections. See optional and standard accessories for more information.

What's in the box?

The Trimble Juno T41 is supplied as standard with the following components and accessories:

- Power supply with international adaptor kit
- Custom USB Cable for syncing to computer

- Package of two (2) ultra clear screen protectors
- Screen Cleaning Cloth
- Wrist strap
- Screwdriver/SD card removal tool
- Quick Start Guide (with URL for online user manual)

What optional accessories are available for the Trimble Juno T41?

The following optional accessories are available for the Trimble Juno T41.

ACCAA-114	T41 External Battery Pack "Juice Pack"
ACCAA-670	T41 International AC Charging Kit
ACCAA-671	T41 Vehicle Charging Kit
ACCAA-810	T41 Stylus with Tether
ACCAA-563	T41 USB Cable
ACCAA-564	T41 USB 9-pin Serial Adapter
ACCAA-565	T41 USB Host Adapter
ACCAA-309	External GPS Antenna
ACCAA-310	Capacitive Touchscreen Gloves (M/L)
ACCAA-310	Capacitive Touchscreen Gloves (XL)
ACCAA-257	Wrist Strap
ACCAA-365	T41 Ultra Clear Screen Protectors Kit (QTY 2)
ACCAA-366	T41 Ultra Clear Screen Protectors Kit (QTY 10)
ACCAA-218	T41 Port Cover
ACCAA-311	Audio Headset

Where can I get more information?

Visit www.trimble.com/rugged or contact your local Trimble reseller to learn more about Juno T41 and Nomad, Yuma, Recon or Ranger rugged outdoor computers.