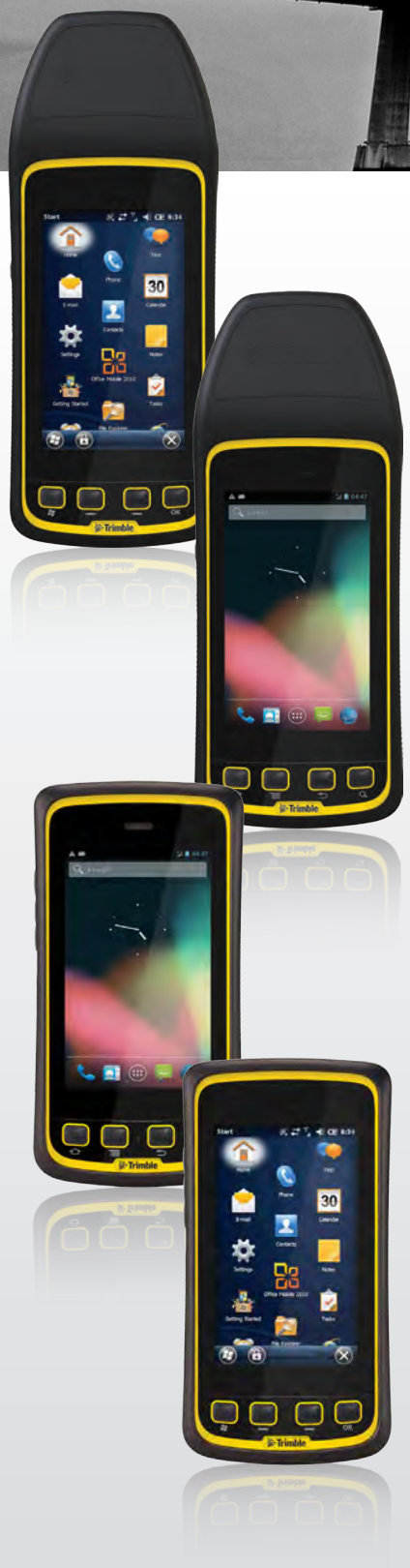
Juno T41

rugged handheld computer

The flexible, fully rugged Juno T41 is available in a wide variety of configurations. Build the handheld computer you need: Android or Microsoft Windows operating systems, Barcode Imager, Smartphone or GPS collector (or both)... whatever your ideal combination of features and functionality, the Juno T41 is a reliable workhorse designed to last for years in any environment.



KEY FEATURES & MODELS

Juno T41 C: Rugged Handheld Data Collection – Basic Model

Fully Rugged design with IP65 or IP68; Mil-ST-810G

Choice of Operating Systems: Windows Embedded Handheld (WEHH) 6.5 or Android 4.1 "JellyBean"

Processor: 800 MHz or 1GHz Texas Instruments DM3730

RAM: 512 MB

Flash Storage: 8GB

Multi-touch User Interface with Capacitive Stylus Compatibility

8 MP camera with dual LED flash and geo-tagging/ Audio/Video

2-4 Meter integrated GPS receiver w/SBAS

Bluetooth and Wi-Fi b/g/n

4.3" WVGA Sunlight-readable Corning® Gorilla® Glass Display

Accelerometer and Electronic Compass

Full-Day Battery Life

2-year Standard Warranty

Juno T41 X: Smartphone

3.75G cellular data, text & voice
AT&T Certified

Processor: 1GHz Texas Instruments DM3730

RAM: 512 MB

Flash Storage: 16GB
Juno T41 S: 1D/2D Barcode Imager

White light illumination and red LED-based aimer for ease of use

High-motion tolerance for quick scanning responsiveness

Omni-directional reading capabilities for real world use conditions

Rapid Scanning Capability for high read rates no matter the angle or orientation

Access to other valuable tools such as:

- Multicode reading
- Data editing
- Image capture
- Signature capture
- Scanning barcodes on mobile phone screens
- Illumination, aiming, presentation modes

Software Development Kit to customize workflow

Juno T41 G: Real-Time Enhanced GPS: Accuracy 1-2 Meters in Real Time[1]

Real-time GPS accuracy of 1-2 meters[2] with SBAS

Dramatic performance improvement with GPS Accuracy Algorithm Enabled5

Small, portable & ergonomic form-factor

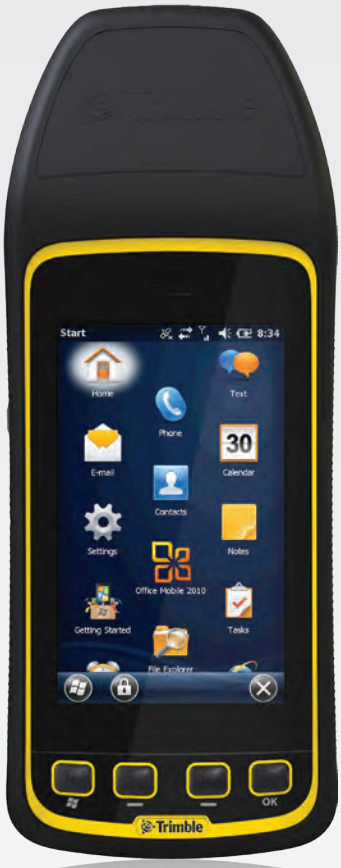
Compatible with 3rd party networks (VRS)

Raw Data Available for post-processing to enable sub-meter performance

Note: X models contain C functionality and options

Note: S and G models contain C and/or X functionality and options

Juno T41
rugged handheld computer



Empowering the Mobile Worker

The Juno T41 rugged handheld computer is designed to be long-lasting, from the battery to the processor, and to work through mishaps that would sideline lesser products. The Juno T41 handheld is built to MIL-STD- 810G standards and some are 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.

Some Juno T41 handhelds come in your choice of either Windows Embedded Handheld (WEHH) v 6.5 or Android 4.1 "Jelly Bean" operating systems.

The Juno T41 features an 800 MHz to 1 GHz processor, 512 MB of RAM and up to 32 GB of storage.
The 4.3" high resolution Corning® Gorilla® Glass panel capacitive touchscreen is sunlight-readable and beautifully 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.

Physical connection to other electronic devices is supported via the Juno T41 handheld's custom connector that provides easy connectivity to a USB device, a 9-pin Serial device or a battery charger.

Model Options – Build Your Ideal Juno T41

Basic and Smartphone: the "C" and "X" Configurations

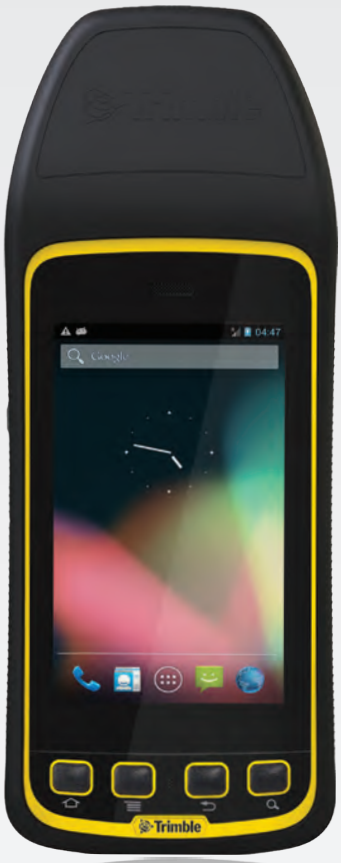
Tough, powerful and packed with features that take it far beyond "basic," the Juno T41 is designed to replace BYOD smartphones with an 8 MP integrated camera, SMS text and 3.75 cellular data transfer capabilities on GSM networks worldwide. The 800 GHz or 1 GHz processor and 512 MB RAM will run your software fast and reliably. Choose either Android 4.1 or Microsoft WEHH 6.5 operating systems.

1D/2D Barcode IMAGER: the "S" Configuration

TrimbleScan Technology gives your solution an edge by reading an array of traditional barcodes as well as 1D and 2D matrix codes, captures signatures and images. All of these features are customizable using the Trimble "Scan Agent" application. Enterprises can also use the T41 Software Development Kit (SDK) to optimize for specific customer needs.
Omni-directional reading capabilities along with high motion tolerance allows rapid, accurate barcode imaging no matter what the angle or orientation the unit is to the barcodes. Read as many as 200 barcodes per second with 100% accuracy.

Even if the unit is dropped on the concrete... it's going to provide accurate information, without missing a beat.

Juno T41
rugged handheld computer



Real-Time Enhanced GPS Accuracy: the "G" Configuration

Pair enhanced GPS with any other Juno T41 technology including the basic handheld computer, smartphone, or 1D/2D Imager to get extra value out of your existing workflows. The T41 G provides dramatic improvements in performance compared to other T41 models without the Enhanced GPS, allowing data collection in real-time at 1-2 meter accuracy, while gathering Raw Data Output for post-processing applications.

The Juno T41 G supports the GPS L1 band, along with offering reliable performance in reduced signal environments. Mobile workers who have to move from place to place to collect GPS data on far-flung assets won't have to waste time waiting for a warm-up: the Juno T41 G boasts an average cold start of less than 33 seconds, and an Assisted-GPS start of less than 3 seconds. The Juno T41 G is designed to work optimally with Trimble Positioning Services VRS.

Assets are everywhere now... map accurately and reliably no matter where your workers have to go.

Built for Work in the Real World

Your business isn't limited to inside the four walls. No matter your industry, if your people spend work hours outdoors, a rugged handheld is a cost-effective piece of equipment. Integrate the Juno T41 with the right set of features and functionality into your organization and take your applications to the next level.

Model Configurations by Form Factor:

The images below depict the available physical form factors of the Trimble Juno T41 computers.

Models in this form factor:	Models in this form factor:
Juno T41 C	Juno T41 CS
Juno T41 X	Juno T41 XS
	Juno T41 XGS

[1]Requires SBAS and T41 GPS Accuracy Algorithm. May vary due to atmospheric conditions, multipath, obstructions signal geometry and number of satellites tracked. The GPS Accuracy Algorithm is a Carrier Smoothing Algorithm. Testing done in Open Sky & Light Cover.

[2]WAAS available in North America only; EGNOS available in Europe only: MSAS available in Japan only.

TECHNICAL INFORMATION

S, G FEATURES

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
  - o 1D supported symbologies:
    EAN/UPC, GS1 Databar (limited expanded & omni-directional), 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)
  - o 2D supported symbologies:

Data Matrix, PDF417, Micro PDF 417, Codablock, Maxicode, QR, Aztec

- Access to other valuable tools such as:
  - o Multicode reading
  - o data editing
  - o image capture
  - o signature capture
  - o scanning barcodes on mobile phone screens
  - o illumination, aiming, presentation modes
- Software Development Kit to customize workflow

Real-Time Enhanced GPS

- 1-2 meter Real-time accuracy with no post-processing or subscription fees required
- 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

C, X AND ALL OTHER MODEL FEATURES

- Processor: 800 MHz or 1 GHz, Texas Instruments DM3730
- RAM: 512 MB
- Flash Storage: 8, 16 or 32 GB
- 4.3" WVGA sunlight-readable Corning® Gorilla® Glass display
- Light sensor to auto-adjust display brightness
- Capacitive multi-touch interface
- Integrated 3.75G cellular data, text and voice capability
- 8 megapixel camera with geo-tagging and dual LED flash
- Bluetooth® 2.1 with Enhanced Data Rate
- Wi-Fi (802.11 b/g/n)
- GPS Receiver options: 2 to 4 meter accuracy or 1 to 2 meter accuracy (SBAS Capable: WAAS & EGNOS)
- MCX port for optional External GPS Antenna
- Electronic Compass
- Accelerometer
- Robust Custom Port with USB 2.0 Full Speed Protocol
- Conversion Cables available for 9-pin Serial or USB host
- MicroSD memory card slot (supports SDHC up to 32 GB)
- Integrated speaker and microphone
- 3.5 mm Headset Jack with Audio Capability

OPERATING SYSTEMS

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

Windows Embedded Handheld 6.5 Standard 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" Standard Software:

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

Application Developer Support

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

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

ENVIRONMENTAL SPECIFICATIONS

Water: Survives immersion at 6.6 ft (2m) for 1 hour (gray models), IEC-60529 IP-X8

Survives driving rain and water spray (yellow models), IEC-60529 IP-X5, water jet 12.5mm dia @ 2.5-3m

Dust: Protected against dust, IEC-60529 IP-6X, dust chamber with under-pressure

Drops: Survived multiple drops of 4 ft. (1.22m), MIL-STD-810G, Method 516.6, Procedure IV, Transit Drop

Operating Temperature: -22 ºF to 144 ºF (-30 C to 60 C), MIL-STD-810G, 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 ºF to 158 ºF (-40 C to 70 C), MIL-STD-810G, 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 ºF and 144 ºF (-30 C and 60 C), MIL-STD-810G, Method 503.5, Procedure I-C

Humidity: 90% relative humidity with temperatures between 22 ºF and 144 ºF (30 C and 60 C), MIL-STD- 810G, Method 507.5, Procedure II

Altitude: 15,000 ft (4,572 m) at 73 °F (23 C) to 40,000 ft (12,192 m) at -22 °F (-30 C), MIL-STD-810G, Method 500.5, Procedure I, II & III

Vibration: General minimum integrity and loose cargo tests, MIL-STD-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

PHYSICAL

Size (C,X,M) ..... 6.1 in × 3.2 in × .9 in (15.5 cm x 8.2 cm x 2.5 cm)

Size (G) ..... 8.26 in × 3.2 in × 1.26 in (20.98 cm x 8.14 cm x 3.19 cm))

Weight (C,X,M) ..... 13.5 oz (.4 kg), including battery

Weight (G) ..... 16.69 oz (.48 kg), including battery

Color ..... Black with Yellow or Black with Gray

ELECTRICAL

Processor: Texas Instruments DM3730 1 GHz Processor

Memory: 512 MB RAM

Storage: 16/32 GB non-volatile Flash Storage

Expansion: microSD card slot, SIM Card Slot

Display: 4.3 in (10.9 cm), 480 x 800 pixel, WVGA TFT

Batteries: 11.1 V, 2500 mAh, 27.8 Wh Li-ion rechargeable pack

I/O: 3.75mm audio jack, MCX GPS antenna port and a custom port that supports USB 2.0 Host, USB Client, 15 VDC power and Serial connections

GPS: 2-4 m accuracy with WAAS/SBAS correction

Radios: Bluetooth 2.1 +EDR; Wi-Fi 802.11 b/g/n

WWAN radios: UMTS / HSPA+, GSM / GPRS/ EDGE, UMTS

Bands (WCDMA/FDD): 800, 850, 1900

GSM Bands: 850, 900, 1800, 1900 MHz

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, MIL-STD-810G, IP65/IP68, MIL-STD-461E.

U.S.A : Trimble Navigation Limited
3501 Jamboree Road
Newport Beach, California 92660
+1 (949) 892-6120

water@trimble.com
www.trimblewater.com

R.o.W : Trimble Navigation Limited
NSC Campus, Mahon, Cork Ireland
+353 21 230 9328

Trimble