Trimble TSC3
CONTROLLER

The Trimble® TSC3 controller with Trimble Access™ software is a groundbreaking handheld field computing solution that streamlines the flow of everyday surveying work and the number of devices you need in the field.

A POWERFUL ENGINE FOR DRIVING TRIMBLE ACCESS SOFTWARE

Part of a trusted line of field controllers, the Trimble TSC3 controller is rugged and designed for surveyor's workflows. It performs Trimble Access operations fast and delivers ample power to run third-party applications on the Windows® platform.

Make Pictures an Essential Part of Your Workflow

With a built-in 5 MP Autofocus camera and LED flash, you can take digital photographs of your job site right from the controller. No extra devices, batteries, or file transfers are required, and images are automatically geotagged for easy identification.

Easily record the qualitative information that survey data alone can miss, such as site conditions or work progress. The benefits of including images as part of your workflow are almost limitless: from easy data handover to in-field quality assurance.

Communications that Bridge Field and Office in Real-Time

The TSC3 controller enables wireless Internet connectivity through an integrated GSM/GPRS/CDMA2 modem. This allows Trimble Access software to facilitate a constant flow of information between field and office, including real-time synchronization of field and office data with Trimble AccessSync software. You can download and upload important files any time and from anywhere, as needed. Data collection, processing, analysis, and delivery are faster and more efficient.

A wealth of communication options let you transfer critical information no matter the environment: Connect with VRS™ connections using the internal modem. Access your office network through 802.11 LAN, or USB and serial RS232 communication options.

For All of Your Surveying Applications

The rugged TSC3 controller is purpose-built to make both Integrated Surveying and Spatial Imaging jobs easier, more efficient, and more flexible:

Easy-to-Use Interface
Control your survey and verify your work on the large, bright, high-resolution LCD touchscreen. With the option of a QWERTY or conventional alpha-numeric keyboard, data entry is quick and easy.

An Internal Compass
Receive direction cues even when you are stationary or moving backwards.

Integrated GPS
Employ GPS Search on a conventional survey without an external GPS receiver. You can also navigate and find control points and other assets quickly.

Cables Eliminated
Bluetooth® wireless technology eliminates cables in surveying systems. An internal 2.4 GHz radio option is also ideal for controlling Trimble robotic systems.

Designed to Support Your Daily Workflows

Trimble Access field software available on the TSC3 controller offers numerous features and capabilities to streamline the flow of everyday surveying work. Streamlined workflows – such as Roads, Monitoring, Mines, and Tunnels — guide crews through common project types and allows crews to get the job done faster with less distractions.

Survey companies can also implement their unique workflows by taking advantage of the customization capabilities available in the Trimble Access Software Development Kit (SDK). The Trimble Access SDK provides software developers with the tools to customize and extend Trimble Access.

With a bright, daylight readable display, integrated communications, and integrated survey workflows, the fully integrated TSC3 controller will make your field work more efficient.

Key Features

- ▶ Large, bright, high-resolution screen makes instrument control easy
- ▶ Optimized for Trimble Access field software
- ▶ Fully-integrated camera, GPS navigation, and communications
- ▶ Improved collaboration and control through constant connectivity

Trimble

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TECHNICAL SPECIFICATIONS

Standard software
Windows Embedded Handheld 6.5 Professional operating system, including:
- SMS Text Messaging Support
- Microsoft Office Mobile:
  - Word Mobile
  - Excel Mobile
  - PowerPoint Mobile
  - Outlook Mobile
- Internet Explorer Mobile
- Notes / Tasks
- Task Manager
- Calculator
- Microsoft Pictures and Videos
- Customized Camera and Flash control including geo-tagging through Microsoft Pictures & Videos software
- Flashlight mode control application
- Calendar / Contacts
- Windows Media Player
- Messenger
- Adobe Acrobat Reader
- Trimble SatViewer (GPS interface software application)

Operating system languages options (customer provisionable): Simplified Chinese, English, French, German, Japanese, Spanish

Trimble Field Software Solutions
The Trimble TSC3 controller runs the Trimble Access field software. In addition, a number of regional solutions are available. For more information on the field software that's best for you, contact your local Trimble authorized distribution partner.

Standard Accessories (included)
- 28.9 Wh Li-Ion battery
- International AC power supply
- Hand strap
- USB cable (mini)
- Stylus tether
- Stylus with spring tip (pkg of 2)
- Screen protectors
- Audio port dust cover
- I/O port dust covers
- Standard soft case
- Quick start guide sheet
- Radio antenna for integrated 2.4 GHz radio modem (optional)

Optional Accessories
- Deluxe carry case
- Individual battery charger
- Range pole bracket
- 12 V vehicle charging kit
- Desk docking cradle with USB host, USB client, and 10/100 Mbps Ethernet connections

All standard accessories are also available to order separately.

HARDWARE

Physical Specifications
Size. . . . . .141 mm x 278 mm x 64 mm (5.6 in x 10.9 in x 2.5 in) 80 mm (3.2 in) at handgrip
Weight . . . . 1.04 kg (2.3 lb) including rechargeable battery 1.10 kg (2.4 lb) including rechargeable battery and optional internal 2.4 GHz radio-modem
Housing. . . . . Polycarbonate (case), Hytrel® (overmold)

ENVIRONMENTAL SPECIFICATIONS
Meets or exceeds:
Operating Temperature . . . . –30 °C to 60 °C
Storage Temperature. . . . .–40 °C to 70 °C
Temperature shock . . . .–35 °C/65 °C
MIL-STD-810G, Method 503.5, Procedure I
Humidity . . . . 90%RH temp cycle –20 °C/60 °C
MIL-STD-810G, Method 507.5
Sand & dust . . . . IP6x: 8 hours of operation with blowing talcum powder (IEC-529)
Water . . . . IPx7: Immersed in 1 m of water for 30 minutes (IEC-529)
Drop . . . . 26 drops at room temperature from 1.22 onto plywood over concrete
MIL-STD-810G, Method 516.6, Procedure IV
Vibration . . . . .General Minimum Integrity and Loose Cargo test
MIL-STD 810G, Method 514.6, Procedures I, II
Altitude . . . . 4,572 m at 23 °C and 12,192 m at –30 °C
MIL-STD-810G, Method 500.5, Procedures I, II, III

ELECTRICAL SPECIFICATIONS
- Processor: Texas Instrument Sitara™ 3715 series ARM® Cortex™–A8 Processor (800 MHz)
- Memory: 256 MB RAM
- Storage: 8 GB non-volatile NAND Flash onboard
- Expansion: SDHC memory slot, USB host internal embedded expansion slot (for future use)
- Batteries: 11.1 V, 2600 mAh, 28.9 Wh Li-Ion rechargeable pack
  - Battery life of 34 hours under normal operating conditions[1].
  - Full charge in 3.0 hours.
- Notification LEDs: 3 x tri-colored notification LEDs
- Display:
  - 4.2 in (107 mm) landscape VGA display, 640 x 480 pixels
  - Sunlight-readable color TFT with LED backlight, resistive touchscreen
- Keyboard:
  - Full QWERTY keypad with 10-key number pad, directional buttons, and 4 programmable buttons
  - "ABCD" style keypad option with 10-key number pad, directional buttons, and 4 programmable buttons available
- Audio: Integrated speaker and microphone with 3.5 mm stereo headset connection for audio system events, warnings, and notifications.
- I/O: USB Host (full speed), USB Client (high speed), DC power port, 9-pin serial RS-232
- Wireless:
  - Integrated Bluetooth 2.0+EDR, integrated Wi-Fi 802.11 b/g
  - Integrated quad-band GSM/GPRS/EDGE: 850/900/1800/1900 MHz
  - 2/6 Mbit/s 3G HSDPA GSM WWAN
  - Integrated 2.4 GHz frequency-hopping spread-spectrum radio modem (optional)
  - Dual band CDMA2000 in Bands BC0 and BC1 (800/900MHz)[2]
- Camera / GPS / Compass / Accelerometer:
  - 5 MP auto focus camera with dual white light LED flash, LED flashlight function
  - Integrated GPS (WAAS enabled)
  - Integrated compass
  - Integrated accelerometer

CERTIFICATIONS
Class B Part 15 FCC certification, CE Mark approval and C-tick approval. RoHS compliant. Bluetooth type approvals and regulations are country specific. MIL-STD-810G, IP 67, MIL-STD-461, PTCRB, GCF compliant, Wi-Fi Alliance certified, AT&T Network Compatible.
Country type certifications: USA, Canada, EU, New Zealand, Australia, Brazil.
Pending certifications: Malaysia, China (PRC), India, Japan, Republic of Korea, Russia, Taiwan, Thailand, UAE

RECYCLING INFORMATION
For product recycling instructions and more information, please go to www.trimble.com/environment/summary.html.

1 Unit is idle with backlight turned on, no radios turned on, moderate temperatures.
2 CDMA modem only supports the Verizon network (USA).

Specifications subject to change without notice.