

RuggedReader®



Introducing the **New RuggedReader®** from In-Situ® Inc. Collect, store, analyze and transfer data using this ultra-rugged, multi-purpose, hand-held PC. When coupled with any of In-Situ's TROLL® Water Quality or Level instruments, the **RuggedReader®** delivers a reliable, easy-to-use data management system that will stand up to the harshest conditions. Improved smart battery, faster processing speed, a more flexible interface and the latest Microsoft® operating system make the new **RuggedReader®** a must have.

Key Features & Benefits:

- **Wide Instrument Compatibility** – Use with all TROLL instruments including: Level TROLL® 300, 500 & 700, Aqua TROLL® 200, TROLL® 9500, miniTROLL® and TROLL® 9000.
- **Latest Microsoft Operating System** – Microsoft Windows Mobile® 5 includes Microsoft Internet Explorer, Word, Excel®, PowerPoint®, Outlook®, ActiveSync®, plus much more. Enjoy all the benefits of a handheld PC.
- **Smart Lithium-Ion Battery** – Smart battery cannot be overcharged and operates for up to 20-hours on one charge.
- **IP-67 Rating** – Ultra-rugged construction protects against dust and accidental submersion.
- **Intel 300 MHz or 520 MHz Processor** – Faster navigation and faster processing.
- **High Contrast, Color LCD** – View data easily even in direct sunlight. Select between portrait or landscape view!
- **Loaded with In-Situ Software** – View real-time data, set up tests, download data, calibrate sensors, view calibration reports plus a lot more.

For complete listing of the **New RuggedReader®** click on "Specifications" under **Product Details** below.

Product Details

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[Specifications](#)

Additional Features

Rugged Construction

Withstands drops on rocks, accidental immersion in water, blazing hot conditions, and subzero cold.

Fully Sealed Design

IP-67 rating protects internal components in case of accidental immersion in water.

Flexible Connections

Transfer data with ease. 9-pin RS-232 connection plus two mini USB connections allow the RuggedReader to be used as a host or client device.

Lightweight and Easy to Hold

Ergonomic design fits comfortably in your hand.

Easy-to-use Keypad

Large, tactile buttons are generously spaced for easy operation – even with gloves!



User-Accessible Expansion

Gain additional storage or room for GPS or Bluetooth integration using two user-accessible expansion slots (CF or SD).

Large, High-Contrast Display

Rugged, touchscreen color display, usable in portrait or landscape view, provides excellent screen viewing in most environmental conditions.

Powerful Win-Situ® Software

Ensure simple, efficient and error proof data management using Win-Situ Mobile, Pocket-Situ and Win-Situ Sync.



Specifications

Processor (2 available models)

- Intel® XScale® PXA270, 300 MHz
- Intel® XScale® PXA270, 520 MHz

Operating System

- Microsoft® Windows Mobile® 5 Operating System
- Non-volatile, secure, stored in Flash, protected from accidental erasure

Memory (RAM)

- 64 MB low-power RAM
- OS uses RAM more efficiently, providing more memory for larger applications and databases

Data Storage

- Internal solid-state 128 MB Flash disk
- Data and applications securely stored in Flash

CF and SD Card Slots¹

- Compact Flash: Type I or Type II for data storage and other peripherals
- Secure digital (SD or SDIO) can be used with memory

Environmental

- Operating temperature: -22° F to 122° F (-30° C to 50° C)
- Storage temperature: -22° F to 140° F (-30° C to 60° C)
- Waterproof and dust-proof, IP67
- Shockproof: multiple drops from 5 ft (1.5 m) onto concrete through temperatures ranging from -22° F to 122° F (-30° C to 50° C)
- MIL-STD-810F: water, humidity, sand and dust, vibration, altitude, shock

Included Software

- Microsoft® Internet Explorer® Mobile
- Microsoft® Office Mobile: Word, Excel®, and PowerPoint® Mobile
- Microsoft® Outlook Mobile, which includes: Inbox, Calendar, Contacts, Instant Messaging, Tasks, Notes, Spell Checker
- Microsoft® ActiveSync® 4.0 for desktop or laptop computer
- Win-Situ® Mobile, Pocket-Situ, Win-Situ® Sync, HydroPlus CE®*
- Terminal Services Client (can control your desktop)
- Microsoft® Windows® Media Player 10 Mobile

cards and other peripherals

- User accessible, fully sealed
- Optional extended cap for camera, GPS, Bluetooth, cellular modems, barcode, and other extended cards

High Contrast Color Display

- Active viewing area: 3.5" diagonal (89mm)
- High visibility TFT active Matrix transfective LCD
- 1/4 VGA, 240 x 320 pixels
- Selectable portrait or landscape view
- Backlit LCD

Touchscreen

- Sealed, resistive, pressure sensitive touchscreen
- Convenient on board stylus storage

Communications Module (patent pending)

- COM 1: 9-pin sub D connector with 5 V power on DTR
- USB host (Mini A) can control other devices
- USB client (Mini B) synchronizes information to other computers
- 12VDC jack for power input and battery charging (wall mount or vehicle charger)

Physical

- Size: 6.5" length x 3.5" wide x 1.7" thin (165x89x43mm)
- Weight: 17 ounces (482 grams)
- Magnesium case with blue flexible overmold

Keyboard

- Quad arrow (up, down, left, right)
- Standard key functions include:
 - Start – menu of applications
 - Task – switches tasks
 - Home – home desktop
 - Return – activates enter function
 - Context – activates context sensitive menu
 - Record – launches audio recording function
 - Screen rotation – portrait or landscape view
- Keys can be user-defined
- LED backlit keys

Enunciators

- External power/charge LED indicates battery charging status
- Notification LED to alert the user of events on the device
- Other enunciators on system tray

- Calculator, Pictures, Videos (image and video viewer) and Games
- Voice Recorder
- Handwriting Recognition

Development Environment

- SDK for Windows Mobile supports:
 - Embedded Visual C++ version 4.0
 - Visual Studio 2005

* For demo use only.

Standard Accessories

- Rechargeable Li-Ion Battery
- Screen protector (2)
- AC charger (universal voltage)
- In-Situ Quick Start Guide
- USB cable
- Microsoft CD-ROM
- Captured full-size stylus (1)
- On-line Tutorial
- Hand strap
- Universal Plugs (US, UK, EU & Aus)
- Car Charger
- Communications Connector Cover

Wireless Communication Options¹

- Bluetooth-supported with CF or SD Bluetooth card
- Wi-Fi supported (requires SD or CF Wi-Fi adapter card for wireless networking)
- Wireless cellular modem for wide area communication

Certifications

- FCC Class A
- European CE Mark

Real Time Clock

- Keeps correct date and time, even during long-term battery removal
- Warranted clock spec is +/- 3 min. per 30 days

Warranty

- 2 year limited warranty

¹520 MHz model recommended when using these options