



MobileMapper CE

RUGGED WINDOWS CE GPS HANDHELD FOR ACCURATE MOBILE MAPPING

THE ULTIMATE MOBILE MAPPING PLATFORM

MobileMapper™ CE is the next generation handheld GPS mobile mapping device from Thales. An open-platform design with embedded Microsoft® Windows® CE .NET, MobileMapper CE supports off-the-shelf Windows CE software for GIS and many other mobile mapping applications.

MobileMapper CE offers must-have features like sub-meter GPS positioning, integrated Bluetooth® wireless technology, removable SD card memory, touch screen, field replaceable all day run-time battery and built-in alphanumeric keypad. Simple, rugged and affordable, MobileMapper CE will accelerate your success without sacrificing performance.

HIGH PERFORMANCE GPS

The simple all-in-one design of MobileMapper CE lets you focus on the task at hand rather than device configuration. With its fully integrated 14-channel GPS receiver, MobileMapper CE offers real-time, sub-meter positioning accuracy through WAAS/EGNOS or external differential corrections. MobileMapper CE GPS technology provides multipath mitigation optimized to overcome environmental challenges in urban canyons and dense foliage.

RUGGED AND WATERPROOF

Designed for extreme outdoor and industrial environments, MobileMapper CE offers performance-focused professionals the ruggedized features they need without sacrificing size, weight or affordability. Fully submersible in 1 meter of water, MobileMapper CE is waterproof in accordance with IEC-529 IPX7. Tested to withstand accidental drops on concrete from 1.5 meters (4.9 ft), and with an operational temperature range from -10°C to +60°C, MobileMapper CE affords even the most demanding users peace of mind in extreme field conditions.



HIGHEST PERFORMANCE-TO-PRICE RATIO IN THE MARKET

MobileMapper CE offers best-in-class performance for the price with user-friendly features and dedicated support from Thales Navigation. With so many integrated features in a highly shock resistant and waterproof device, MobileMapper CE is the next generation mobile mapping tool built to survive the hazards of professional fieldwork. MobileMapper CE - the features and performance you demand at the price you want.

TECHNICAL SPECIFICATIONS

Standard Features

System

- Microsoft Windows CE .NET 4.2
- ARM9 processor
- 64 MB SDRAM, 128 MB Nand Flash Memory
- Removable SD card memory for data storage
- Full color daylight readable display with touch panel
- Field-worthy, rugged design (IPX7)
- All day removable, rechargeable battery
- Integrated alphanumeric keypad
- Built-in speaker and microphone
- Integrated Bluetooth wireless technology

GPS

- Sub-meter accuracy⁽¹⁾
- 14 parallel channels with integrated WAAS/EGNOS
- RTCM SC-104 real-time correction support, RTCM version 2.1 (9,2 & 1,2)
- Lemo coaxial external antenna connector

Software

- GPS Utilities - provides initialization and setup, mission planning and configuration of optional beacon differential receiver
- Bluetooth Manager – full-featured Bluetooth connectivity configuration utility
- Microsoft WordPad, Internet Explorer®, Windows Explorer, Terminal, ActiveSync®, Windows Media Player and Inbox
- Microsoft File Viewers: Excel, Word and Image Viewers
- EZ Recorder – sound record and playback program
- Software Development Kit (SDK) and GPS Application Programming Interface (API)

Standard MobileMapper CE system includes:

- Clip-on I/O module with external power, USB and serial ports
- Universal A/C adapter
- Removable, rechargeable lithium-ion battery

- 32 MB Secure Digital memory card (expandable)
- USB data cable
- Carrying case
- Hand strap
- Stylus pens (2)
- MobileMapper CE companion CD includes supported international language fonts and ActiveSync 3.7.1.
- Getting Started Guide

Optional Features

Accessories

- MobileMapper Beacon – Bluetooth enabled beacon differential correction receiver
- External antenna
- SD memory cards: 32 MB, 64 MB, 512 MB and 1 GB
- Power cable with cigarette lighter adapter
- 3.7 V lithium-ion rechargeable battery
- External battery charger
- Stylus pens
- Carrying case
- USB data cable
- Clip-on I/O module with external power, USB and serial ports

Technical Specifications

Physical Characteristics

Weight

- 0.48 kg (1.05 lb) with battery

Size

- 9 cm x 19.5 cm x 4.6 cm (3.5 in x 7.7 in x 1.8 in)

Processor

- ARM920T based

Memory

- 64 MB SDRAM, 128 MB Nand Flash, 32 MB SD card (expandable)

User Interface

- Full color advanced TFT liquid crystal display (LCD) with backlight
- 320 x 240 resolution with 262,144 colors
- Resistive touch panel
- Keyboard with backlight: 18 buttons

Audio

- Integrated microphone and speaker

Power Characteristics

- Battery type: 3.7 V lithium-ion, 3900 mAh
- Battery life: 8 hour run-time with GPS
- External power port for extended operation time

Environmental Characteristics

- Operating Temp: -10°C to 60°C (14°F to 140°F)
- Storage Temp: -20°C to 70°C (-4°F to 158°F)
- Weather: IEC-529 IPX7 Standard (withstands water immersion for > 30 min. at depth of 1 m)
- Shock: 1.5 m (4.9 ft) drop to concrete

Communication Characteristics

- USB host and slave support
- Serial RS232 support
- Bluetooth wireless technology
 - Bluetooth specification: 1.2 compliant
 - Supports point-to-point and point-to-multipoint
 - Profiles: standard serial port, file transfer (OBEX), dial up networking (client support only)

GPS Characteristics

- 14 parallel channels
- Integrated real-time DGPS: WAAS or EGNOS
- Update rate: 1 Hz
- Protocol: NMEA 0183 v 3.0 and MobileMapper Measurements (Thales format)
- DGPS position accuracy: Sub-meter⁽¹⁾ RMS

Emissions Certification

- Immunity (EN 55022 Class B)
- Susceptibility (EN 50082-1)
- FCC and CE certified

Language Support

- Full Microsoft Windows CE operating system language support - includes Western and Eastern European languages and multibyte languages such as simplified Chinese
- Standard Thales software user interface available in English, French, German and Spanish

⁽¹⁾ Accuracy assumes open sky environment, #SVs > 5 and PDOP < 4

Thales

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