

# CE8640B



## Increase Productivity, Reduce Costs and Automate Field Operations

Extend the reach of your handheld from the field by choosing the Wireless Edition (Bluetooth, 802.11b/g) or Ethernet Edition (10BASE-T).

Featured with the Xscale (Bulverde) processor (520MHz), the CE8640B provides increased speed to enhance field performance and effectiveness. Fitted with the Windows® CE 5.0 operating system, the CE8640B will allow you to utilize essential applications including Media Player, Voice Recorder Program, and much more.

Memory storage for your data is assured with the CE8640B – 128 MB Storage Flash and 128 MB SRAM, with optional additional storage via the PC Card and SDIO slot.

With a 1/2 VGA STN transfective color LCD with touch screen display, users can view applications in various lighting environments whether indoors or outdoors.

The CE8640B offers a highly rugged 64-key keypad (QWERTY or AZERTY) that allows for easy data entry even when used with gloves.

A range of optional accessories are offered with the CE8640B (sealed RJ45, Ethernet, DB9 (RS-232) and USB host connectors, integrated 1D and 2D barcode reader (CMOS imager), 1D laser barcode scanner, and desktop and vehicle cradles), allowing the unit to be customized and built to all industry requirements.

Integrated into the CE8640B are a PC Card and SDIO slot allowing for added memory or optional peripheral devices.

Staying productive in the field is made easy with a 2400 mAh Lithion-Ion battery (fast swappable) which provides two to four working days under typical environments.

The CE8640B provides ultimate ruggedness in all environments being rated IP67 (sealed against immersion) and meeting MIL-STD-810F standards for humidity, rain, immersion, and free-fall drops.



DAP Technologies and RMT have joined, becoming the leading provider of rugged, highly customizable computer solutions for challenging environments

# CE8640B/BWE

## Base Unit

### Processor

- XScale (Bulverde) – PXA270, 520 MHz

### Operating System

- Windows CE 5.0

### Memory

- 128 MB Storage Flash for Windows CE and file system (approximately 64 MB available to user)
- 128 MB SRAM (approximately 64 MB used for OS)
- Optional: Additional storage via PC Card, CF cards, USB connected memory devices and SD Memory Flash Cards
- Available with the ULTIVUE display for enhanced performance in sunlight

## Display

1/2 VGA (6.5") STN transfective color LCD with backlighting

Indoor/Outdoor color display

Automatic contrast temperature compensation

Scratch and shock resistant touch screen can be used with a stylus or finger



## Connectivity

Ethernet 10BASE-T

Wireless Edition adds Bluetooth Class 2 and 802.11b/g

## Graphics / Sound

Integrated and environmentally-sealed speaker

Recording and playback fully supported by Windows CE operating system

Optional: Integrated and environmentally-sealed microphone and headset connector

## User Interface

Touch Screen

Keyboard

- Highly resistant 64-key keypad (QWERTY or AZERTY)
- Windows CE desktop
- Dedicated function keys
- Large independent numeric keypad and function keys
- Keyboard backlight
- Ergonomic key grouping to speed up data entry
- Tactile and programmable audible feedback
- Software controllable trigger on underside of case molding

## Ports

PC Card Type II (CF Card via adaptor)

1 Secure Digital (SDIO) slot

Serial RS-232 and USB client via cradle

or Serial RS-232 and Ethernet via cradle

Ethernet 10BASE-T (10Mbps)

### Expansion Bay

- Additional space for integration of custom electronics for specific applications
- Multi-function connector, serial, USB I/O, etc.
- Serial port RS-232 on LEMO Type Connector

## Environment

### Temperature:

- Operating: -4°F to +122°F (-20°C to +50°C)\*
  - Storage: -22°F to +140°F (-30°C to +60°C) with battery
  - Storage: -22°F to +158°F (-30°C to +70°C) without battery
- \*Display refresh cycle may decrease at extreme low temperatures

### Free-Fall Drop Resistance:

- Meets and exceeds: IEC 68-2-32 method 1 (1-meter drop onto concrete)
- Meets and exceeds: MIL-STD-810F method 516.5 procedure IV

### Immersion, Rain and Humidity:

- MIL-STD-810F method 512.4 procedure I
- IP67 (1 meter immersion)
- MIL-STD-810F method 506.4 procedure I (wind blown rain)
- Humidity: 95% non-condensing

### Electrostatic Discharge

- Meets: EN 61000-4-2

## Power Supply

Rechargeable 2400 mAh Lithium-Ion battery (fast swappable)

Integrated charge status and low-battery indicator

Intelligent fast charge

Power gauge to monitor the main battery

Rechargeable backup battery

ON/OFF switch, manual and automatic shutoff

12V DC Power jack on casing for power input and battery charging in

addition to cradle recharge

5-Volt power for external devices

## Dimensions

9.05" (230 mm) x 7.28" (185 mm) x 1.97" (50 mm)

2.43 lbs (1100 g) with battery pack

## Options and Accessories

Sealed RJ45 connector on case molding for 10BASE-T Ethernet

Sealed DB9 (RS232) and USB host connectors

Integrated 1D and 2D barcode reader (CMOS imager)

Integrated 1D laser barcode scanner

Various desktop and vehicle communications and charging cradles

## Bundled / Available Software

Microsoft® ActiveSync

FTP client/server

CE Internet Explorer and Viewers for Word

Excel, PowerPoint and PDF files

Microsoft® Outlook

Microsoft® Windows Media Player

Terminal Services Client

Voice Recorder

## Approvals

FCC Class B

CE Certification

RoHS compliant

Class B 21 CFR Chapter I, Subpart J, Part 1040.10 (Laser Barcode Scanner)

IEC 60825-1: 1993+A + A1: 1997 + A2

## Warranty

Manufacturer's warranty: 1 year parts and labor

Optional DAPCare warranty extension available

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**United States**  
Roper Mobile Technology  
7450 S. Priest Dr  
Tempe, AZ 85283 USA  
PJ 800.363.1993  
salesNA@daptech.com

**United Kingdom**  
25 Nuffield Way  
Abingdon, OX14 1RL  
England  
PJ +44 (0) 1235 462130  
FJ +44 (0) 1235 462131  
salesUK@daptech.com

**Canada**  
875 Charest Boulevard West  
Suite 200  
Quebec City, QC G1N 2C9  
PJ 418.681.9394  
PJ 800.363.1993  
FJ 418.681.0799  
salesNA@daptech.com

