dAp TECHNOLOGIES

CE3000B User Guide

CE

Ultimate Security

ROPER mobile technology

2009/03 CMU056-A1 (a) www.RoperMobile.com

ATTENTION DAP CUSTOMERS

Leading Rugged Mobile Computer Companies Merge To Form "Roper Mobile Technology"

TEMPE, AZ. and QUEBEC CITY, CANADA, March 27, 2007--JLT Mobile Computers, a leading provider of rugged, wireless mobile computers built for use in challenging environments, and DAP Technologies, LTD, manufacturer of rugged mobile computing solutions and services, have merged to form **Roper Mobile Technology** (**www.ropermobile.com**). Both Companies are subsidiaries of Roper Industries, Inc. (NYSE: ROP).

JLT Mobile Computers' rugged vehicle mount computers are used throughout the world in warehousing, construction, mining, law enforcement and in many other remote environments. JLT Mobile Computers' sales grew 397% percent during the four-year period since 2002 and it has garnered many national awards for its growth record, including being named to the Inc. 500 List of Fastest Growing Privately-Held Companies in America for the last three consecutive years.

DAP Technologies, a Canadian company, designs and manufactures and markets the DAP line of rugged mobile computing solutions and services in more than 60 countries. DAP's products help increase the productivity of data collection, processing and transmission for a wide variety of applications in industries including utilities, field service, emergency services, public safety, transportation, security and logistics.

With this merger, Roper Mobile Technology is formed and is poised to enter the rugged computing market with a comprehensive line of rugged computers, ranging from Vehicle Mount Terminals to PDAs. This merger is the first of many steps Roper Mobile Technology will take in establishing itself as an innovative technology leader in rugged, mobile computing.

This merger will help the growth of our core technology-rugged, vehicle computers. As Roper Mobile Technology, we are able to use our added resources to strengthen our presence in international markets. In addition, our customers can choose from a broader line of products and can expect an even higher level of responsive world-class service and support.

For more information contact your local Sales or Customer Representative nearest you or visit our new Web Site at www.RoperMobile.Com.

Table of Contents

ISO 9001:2000 Certification 8
Introduction 9
Intended Use 9
Product Description 9
Product Illustration 9
Product Specifications 10
Warning / Caution / Note Definition 11
Symbols 12
Quick Tour 14
Front View 14
Back View 15
Getting Started 16
Battery Warnings 16
Main Batteries Very Low 16
Main Battery Expired 16
Charging the Battery 17
Battery Status Indicator 18
Operation Guide 19
Turning the Unit On & Off 19
Turn Unit On 19
Turning the Unit Off Manually 19
Automatic Shut-Off 20
Touch Screen 20
Touch Screen Calibration 20
Using the Touch Screen 20
Activating the Screen Backlight 22
Using the Keyboard 23
Special functions 23
Alpha Mode 24
Virtual Keyboard 24
Transcriber 26
Activating the Keyboard Backlight 27
PC & SDIO Card Description 28
PC Cards 28
SDIO Cards 28
Using PC & SDIO Cards 28
Inserting PC or SDIO Cards 29
Removing PC or SDIO Cards 30
Using the Cradle 31
Using the Ethernet Cradle 31
Transferring Files in FTP Mode 32
USB Client Connection 33
Vehicle Cradle Connector Identification 35

Table of Contents

Using the Vehicle Cradle 35
Making your own Power Supply Lead 36
Wiring 36
Installing Vehicle Mount 36
Monitoring the Process on a 3 Serial Port Cradle 38
Serial Port Connector Pin-Out 38
Field Replaceable Battery 40
Changing the Field Replaceable Battery 40
Adaptable Endcap Options 42
Barcode Readers 43
Laser Scanner 43
Testing the Scanner 43
2D Barcode Reader 44
Testing the Reader 44
Fast Fingerprint Sensor 45
Testing the Fingerprint Sensor 45
Advanced Settings 49
Advanced Battery Options 49
To See Power Remaining 49
Preserving Power 49
Battery Power Management 49
Background Display and Contrast 50
ActiveSync Communication 50
Partnership with Ethernet Cradle: 51
Advanced User Information 53
Companion Programs 55
DAP CE3000B Programs 55
Microsoft Programs 56
Troubleshooting Guide 57
Storage & Maintenance 58
Storage 58
Cleaning 58
Shipping the Unit 58
Carrying Strap 58
Battery Maintenance 59
Main Battery 59
Backup Battery 59
Replacing the Battery 59
Touch Screen Maintenance 60
Adaptable EndCap With Laser Option 60
Quick-Reference Replacement Parts List 60
Recycling Passport 61
CE Conformity 62

Table of Contents

FCC Statement, Copyright Policy 63
Microsoft End-User License Agreement 64
Limited Warranty 65
Return Merchandise Authorization for Servicing (RMA) 65
Extended Warranty on Roper Mobile Technology Manufactured Products 65
International Addresses 66

ISO 9001:2000 Certification

DAP Technologies has documented and implemented a Quality Management System in accordance with ISO 9001:2000 International Standard (Certificate number: 95786).

This International recognition has been made possible thanks to the continual efforts put forth by DAP's personnel.

In order to ensure continuous improvements to our products and services, we invite you to communicate your comments to our Customer Service Department by dialing:

Canada: 1 (418) 681-7833 or 1 (800) 363-1993
United States: 1(800) 363-1993
Europe: + (800) 8899 1000
or
Sales@RoperMobile.com
www.RoperMobile.com

Return To Table of Contents

INTENDED USE

This User Guide is intended to assist in the operation of the CE3000B series and applies to the CE3240B, running Windows CE.NET 5.0 Operating System, Release Pack K or later and manufactured after June 1st, 2007. Should any information in this Guide be incorrect, please report your comments to your local Customer Service Representative nearest you so that this document can be made as accurate as possible.

PRODUCT DESCRIPTION

The CE3000B Series is built for use in all environments. It will survive being dropped, being subject to vibration, being used in below freezing conditions or desert heat, making it the ideal work tool for industry type applications within many market segments.

PRODUCT ILLUSTRATION

Return To Table of Contents

PRODUCT SPECIFICATIONS

BASE UNIT	**OPERATING SYSTEM & PROCESSOR** • Windows CE 5.0 • Intel XScale Bulverde - PXA270, 520 MHz **MEMORY** • 128 MB Storage Flash for Win CE & File system (approx. 64MB available to the user) • 128 MB SRAM (Approx. 64 MB used for OS) • Optional: Additional storage via PCMCIA/CF Flash Cards and USB connected Memory devices and SD Memory Flash Cards. **Voice System** • Integrated and environmentally sealed speaker • Recording and play back fully supported by Windows CE operating system • Optional: Integrated and environmentally sealed microphone and headset connector	**DISPLAY** • 3.5 inch diagonal (89 mm) QVGA TFT transflective color LCD with LED backlighting • Indoor and outdoor display • Scratch and shock resistant touch screen that can be used either with Stylus or finger **KEYBOARD** • Highly ergonomic keyboard, 22-key keypad with 10 numeric and function keys plus 2 trigger keys • Programmable auto-repeat • Keyboard backlighting • Customized keyboard template • Ergonomic key grouping to speed up data entry • Tactile and programmable audible feedback
CONNECTIVITY	**CE3240W WIRELESS EDITION** • Internal Bluetooth Class 2 • Internal 802.11 b/g	**CE3240B ETHERNET EDITION** • Ethernet 10BaseT, 10Mbps through the cradle
POWER	• Rechargeable 2000mAH Lithium-Ion battery pack (user accessible) • Battery life: Typically 2 to 4 working days • Integrated charge status and low battery indicator • Intelligent fast charge	• Rechargeable backup battery • Backup system for RAM memory if main battery is exhausted or removed • ON/OFF switch, manual or automatic shutoff • 5 Volt power for external devices
ADAPTABLE END-CAPS	• Smart Card Reader: Contact/Contactless • High resolution fingerprint sensor	• 1D/2D Barcode reader (CMOS imager) • 1D Barcode scanner
PC CARD & SDIO	• 1 PC Card Type II (CF Card via adapter) • 1 Secure Digital (SD or SDIO) slot	• CF Card support via adapter • User accessible via an environmentally sealed expansion bay
COMMUNICATION I/O	• Ethernet 10BaseT, 10Mbps plus USB host and client through cradles	• Internal, user accessible and environmentally sealed • Ideal for OEM Integration
BUNDLED/ AVAILABLE SOFTWARE	• Microsoft ActiveSync • FTP Client/Server • CE Internet Explorer and Viewers for Word®, Excel®, PowerPoint® & PDF files • Microsoft Outlook® • Microsoft Window Media Player® • Terminal Services Client • Image & Video Viewer	• Voice Recorder • Handwriting recognition • DAPDUB system allowing: Backup/Restore utilities, cloning, OS update utility, automated file transfer & auto recovery system • CE Pad (Notepad) • Playback/Recording program
PERIPHERALS & ACCESSORIES	• Various communication and charging cradles (office or vehicle)	
SIZE & HEIGHT	• 5.2 cm (2.05 in) x 7.9 cm (3.1 in) x 19.6 cm (7.7 in)	1 lb (454 g) with battery
ELECTRICAL & ENVIRONMENTAL REQUIREMENTS	**TEMPERATURE** • Operating: -20°C (-4°F) to +50°C (+122°F) • Storage: -30°C (-22°F) to + 60°C (+140°F) • Display refresh cycle may decrease	**Immersion, Rain & Humidity:** • Meets MIL-STD-810F method 512.3 procedure 1 & IP65 • Meets MIL-STD-810F method 506.3 procedure 1 (wind blown rain) • Humidity: 95% non-condensing

Return To Table of Contents