

# PM450

## EVERYWHERE SURVIVAL ULTRA-RUGGED HANDHELD TERMINAL

### The terminal what most needed at your harshest warehouse

When you need to do intensive barcode scanning job with mobility at your harshest working environment, PM450 is the right product for you. Even though your consumers always seek for new and cutting-edge technology, your workers have been always selecting the product with the most convenient and user-friendly features to make their job easier and faster. PM450 definitely fulfills these controversial requirements but yet adopts latest technology of enterprise mobility trend for next decade.

### Maximize power and speed with latest micro processor

Adopting latest Cortex A8 @ 1GHz processor from TI (Texas Instrument), PM450 will give you maximum power and speed for your field workforces to conduct any compli-cated job process in the field. PM450 has 512MB RAM memory and 1GB Flash ROM which is enough to run a variety of embedded applications.

### Experience new convenience with new transformable keypad

With 2 different sets of keypad – 32 key Numeric/shifted Alpha & 56 key Full Alpha /Numeric, you will have utmost capability and ease of use at any applications. With Easy Swap function, switching keypad can be done in minutes at service depot.

### Utmost rugged terminal but yet featured as enterprise mobile gadget

PM450 can survive 1.8m (6ft) multiple drop at any operating temperature and at any harsh environment with IP65 water/dust sealing. Moreover, just like the mobile handset on your hand, PM450 also features 3.9G HSPA+ WWAN, IEEE 802.11 a/b/g/n Wireless LAN and built-in assisted GPS as well as 5 Megapixel color camera with LED flash in order to adapt on both inside- & outside-4-wall applications.

### Truly multiple choices of your automatic data input

PM450 has mid-range 1D laser, standard range 1D / 2D imager and extra range 1D / 2D imager in order to be counted on any user application and its user tendency.



### Compatible Utilities



Power Launcher

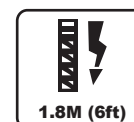
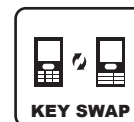
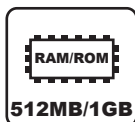
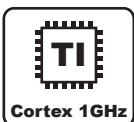


Wavelink TE



MobiControl

PM450 is designed for serving at as many vertical markets as possible: such as transportation, logistics, distribution centers, manufacturing, government, public sectors as so on. As it is truly everywhere survival product in your field, with PM450, you can count on your workers completely without any error input or delay. Moreover, you can completely drop off hassles with less down time and low total cost ownership.



## Technical Specifications

### Physical characteristics

Dimensions: 212.5 x 80.2 x 39.25mm (8.3 x 3.1 x 1.5 in),  
Grip width: 64.5mm (2.5 in)  
Weight:  
468g (16.5oz) w/ Mid/STD scanner & STD battery  
508g (17.9oz) w/ Mid/STD scanner & EXT battery  
516g (18.2oz) w/ extra long range scanner & STD battery  
556g (19.2oz) w/ extra long range scanner & EXT battery

### Environmental

Operating: -20°C to 60°C (-4°F to 140°F)  
Storage: -40°C to 70°C (-40°F to 158°F)  
Relative Humidity: Non-condensing, 95%  
Rain & Dust Proof: IP65  
Drop : 1.8m (6 ft) across the operating temperature range  
Tumble : 1,000cycle (2,000hit) @ 1m (3.3ft)  
ESD: +/- 15 kV air, +/- 8 kV contact

### Power

Standard Battery: 3,120mAh Li-ion  
Extended Battery: 5,200mAh Li-ion  
removable, rechargeable

### Operating System

Windows Embedded CE 6.0 Professional  
Windows Embedded Handheld 6.5 Professional  
Google Android 4.2.2 Jellybean

### Micro-Processor

TI - Cortex A8 Processor @ 1GHz

### Memory and Storage

Memory: 512MB RAM  
ROM: 1GB NAND Flash ROM  
User-accessible micro-SD cards up to 32GB SDHC

### Display

3.5 in, 240 x 320 pixel (QVGA) TFT-LCD  
3.5 in, 480 x 640 pixel (VGA) TFT-LCD  
(VGA model only: LED Backlight 600NITS,  
daylight readable, Wide viewing angle)

### Standard Communications

High speed USB 2.0 from either cradle or  
USB sync cable  
RS232 (115 Kbps) from cradle

### Wireless WAN (Data only, no voice)

UMTS Frequencies: 800, 900, 1900, 2100Mhz  
GSM/GPRS Frequencies: 850, 900, 1800, 1900Mhz  
Technology Class UMTS: 3.9G HSPA+ Max  
Max speeds: Uplink – 5.76 Mbps  
Downlink – 14.4 Mbps

### Wireless LAN

IEEE 802.11 a/b/g/n  
Data rates: 11, 54 and 72.2 Mbps  
Channels: 1 to 13 (2.4GHz) / 36 to 165 (5GHz)  
Regulatory compliance: As per IEEE 802.11n  
Security: WEP / WPA / WPA2 and more  
Authentication: PEAP/MS-CHAPv2, EAP-TLS, CCX  
Encryption: WEP, AES, TKIP

### Wireless PAN

Integrated Bluetooth Class II, Ver.2.1+EDR  
Operating channels: 0 to 78 (2402-2480 MHz)  
Data Rates: 1, 2, 3 Mbps

### Global Positioning System

Standalone GPS,  
Assisted GPS  
-Control Plan - E911  
-User Plan -gpsOneXTRA(TM)

### Integrated Barcode Scanner

1D mid-range laser scanner :  
reads up to 2.5meter (55mil Code 39)  
1D/2D standard range imager :  
reads up to 381mm (UPC 100%)  
1D/2D Extra long range imager : reads  
up to 11meter (100mil Data Matrix)

### Audio Support

Supports VoIP, Built-in microphone and speaker,  
headset jack (3.5mm)

### Integrated Camera

5.0 MP Auto focus camera with flash light

### Keypad Options

Service-depot replaceable 2 keypad options:  
32 key Numeric/shifted Alpha,  
56 key Full alpha & Numeric

### Accessories

Standard accessories: AC/DC power adaptor &  
country plug, Stylus pen and tether, Hand strap,  
Standard battery, LCD protection film  
Optional accessories: Single-slot cradle,  
Single slot ethernet cradle, Extended battery,  
Gun-handle, 4-slot cradle, 4-slot battery charger,  
USB sync cable.

### Regulatory Approvals and Compliance

FCC, IC, cUL, CE,CB, ANATEL,  
UL HAZLOC ISA12.12.01 (C1,D2,G A-D)  
CCC&SRRC, TELEC, KC, RoHS II

### Standard accessories

AC/DC  
Power Adaptor



Standard  
Battery

Stylus pen  
and tether



Hand strap

LCD  
Protection Film



### Optional accessories

USB  
Sync cable



Single-slot  
Cradle

Single-slot  
Ethernet Cradle



Extended  
Battery

Gun handle



4-slot Battery  
Charger

4-slot Cradle



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