



PM450 Series

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 complicated 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 – 34 key Numeric/shifted Alpha & 57 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 lager, 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: 213 x 79.5 x 33.9mm (8.3 x 3.1 x 1.3 in)
 Grip width: 62.6mm (2.5 in)
 Weight: 587g (20.7oz) with gun handle & STD battery
 628g (22.2oz) with gun handle & 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 per MIL-STD-810G
 Drop : 1.8m (6 ft) per MIL-STD-810G
 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
 IEEE 1725 Compliant, removable, rechargeable

Operating System

Windows Embedded CE 6.0 Professional
 Windows Embedded Handheld 6.5 Professional

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

Full 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 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 Operating channels: 1 to 13 (2.4Ghz & 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

Interactive sensors

Accelerometer & Ambient light sensor

Global Positioning System

12 channel integrated GPS: assisted via WAN carrier:
 accuracy within 3m

Integrated Barcode Scanner

1D mid-range Laser Scanner :
 reads up to 2.5meter (55mil Code 39)
 1D/2D Standard range Imager :
 reads up to 419mm (UPC 100%)
 1D/2D Extra Long range Imager :
 reads up to 15meter (300mil Data Matrix)

Audio Support

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

Integrated Camera

5.0 MP Auto focus camera with LED Flash

Keypad Options

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

Accessories

Standard accessories: AC/DC power adaptor &
 country plug, Stylus pen & 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

Safety: EMC, UL, RF, Laser, LED approvals
 Radio: FCC, CE, KCC Marks
 Environmental: RoHS & WEEE compliant

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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JRC INTERNATIONAL
 THE BARCODE CONNECTION