

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 easiler 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 512MB Flash ROM which is enough to run a variety of embedded applications.

Experience new convenience with new transformable keypad

With 3 different sets of keypad – 34 key Numeric/shifted Alpha, 51 key Full alpha/shifted Numeric & 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 miutes at service depot.

Utmost rugged terminal but yet featured as enterprise mobile gadget

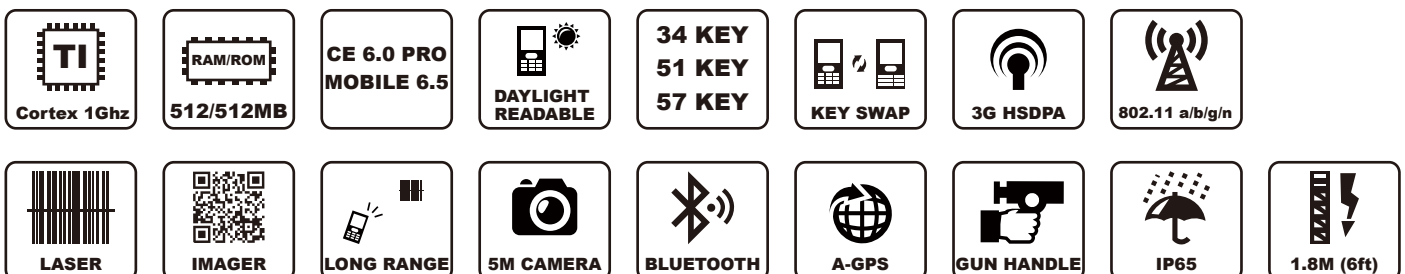
PM450 can survive 1.8m (6ft) multiple drop at any operating temperature and at any harsh environment with IP65 water/dust sealing. Moreover, just like the mobile handset on your hand, PM450 also features 3.9G HSPA+ WWAN, IEEE 802.11 a/b/g/n Wireless LAN and built-in assisted GPS as well as 5 Megapixel 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 a standard range 1D laser scanner, a standard 2D imager, megapixel resolution 2D imager, long-range 1D laser scanner and long-range 2D imager as well as UHF Gen 2 RFID reader & writer, in order to be counted on any user application and its user tendency.



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: 495g (17.5oz) 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
Drop Specification:
1.8m (6 ft) with gun handle on concrete
ESD: +/- 15 kV air discharge,
+/- 8 kV contact discharge

Power

Standard Battery: 3,000mAh 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: 512MB 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 WWAN

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

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:
Network independent: accuracy within 3m
(Optional : Stand-alone GPS)

Integrated Barcode Scanner

1D Laser Scanner: supporting all 1D standard Symbology & Postal code
2D Imager Scanner: supporting all 1D/2D standard Symbology including GS1 Databar
1D Long Range Laser Scanner: reads up to 14 meter depending on symbology & its size
2D Long Range Imager Scanner: reads up to 13meter depending on symbology & its size

RFID Ultra High Frequency

Reading range: 1m to 4m (3.3ft to 13.2ft) dependent on tag size
Operating frequency: 860-960Mhz, firmware definable for specific country frequency
EPC Class1 Gen2 compliant (ISO18000-6)
Antenna: built-in, ceramic antenna, omnidirectional

Audio Support

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

Integrated Camera

5.0 Megapixel fixed focus color camera with flash

Keypad Options

Service-depot replaceable 3 keypad options: 34 key Numeric/shifted Alpha, 51 key Full alpha/shifted Numeric 57 key Full alpha & Numeric

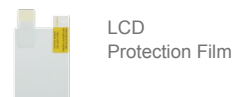
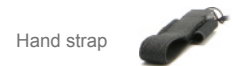
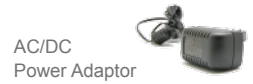
Accessories

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

Regulatory Approvals and Compliance

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

Standard accessories



Optional accessories



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