

# PM100

## ENTRY-LEVEL COMPACT-SIZED DATA COLLECTOR

### Marvell® PXA300 624MHz, Windows CE.NET

PM100 is the entry-level data collecting device, combining a compact rugged form factor with the flexibility of Microsoft's CE 5.0 Core operating system and Marvell® PXA300 624MHz processor. The PM100 is designed for retail warehousing and logistics applications where maximum performance and durability is required in a compact handheld device.

### The Most Advanced Ergonomic Design for Comfort and Scan Intensive Applications

The user-tested ergonomic design of the PM100 has rendered a lightweight with remarkable balanced device that reduces stress and fatigue during extended work sessions. Its sculpted back case is shaped to comfortably accommodate any hand size and ergonomic position side scan button on both sides gives the most comfort to use for either right or left-handed users.

### Comfort and Easy to Use with 25 Degree Tilted Scanning Direction

The PM100 has unique design concept for scan engine positioning the first time in the industry. The scan engine positioned with 25.5 degree for 1D to down side gives the users the maximum comfort and productivity for scanning. Its superior design concept helps to facilitate and increased workforce satisfaction inside the retail store, on the loading dock or on a delivery route.

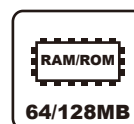
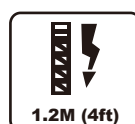
### Outstanding Durability

The PM100 is designed from the ground up for rugged applications. With its IP54 sealing, 4 feet (1.2m) repeated drops to concrete, and wide operating temperature range the PM100 stands up to most any demanding application



### Features

- ▶ Microsoft Windows CE 5.0 Core
- ▶ Integrated 802.11 b/g (upto 54Mbps)
- ▶ 1D and 2D barcode scanning options
- ▶ IP54 protection class
- ▶ Ergonomic, compact and robust
- ▶ Marvell PXA 300 624MHz
- ▶ Integrated Bluetooth v2.0
- ▶ 1.2m (4 ft.) drop resistance
- ▶ 2.4", TFT LCD, QVGA (240x320) color with touch screen
- ▶ Comfort and easy to use with 25 degree tilted scanning angle downside



# Technical Specifications

## Physical characteristics

Dimension with battery  
157 x 57 x 25.3 mm (6.18 x 2.24 x 0.99 in)  
Weight: 228g (8.04oz) with standard battery

## Environmental

Operating Temperature  
-10°C to 60°C (14°F to 140°F)  
Storage Temperature  
-20°C to 70°C (-4°F to 158°F)  
Relative Humidity: Non-condensing, 95%  
Rain & Dust Proof: IP54  
Drop Specification: 1.2m (4 ft.) per MIL-STD 810G  
Tumble Specification: 500cycle (1,000hit)  
@ 1m (3.3ft) tumble  
Electrostatic Discharge: +/- 15 kV air discharge  
+/- 8 kV contact discharge

## Power

Standard Battery Pack: 3.7V, 2,200mAh  
Extended Battery Pack: 3.7V, 3,300mAh  
IEEE 1725 Compliant, Li-Ion, removable,  
rechargeable

## Operating System & Microprocessor

Windows Embedded CE 5.0 Core  
Marvel PXA300 @ 624 MHz

## Memory and Storage

Memory: 64MB  
ROM: 128MB  
Customer-accessible micro-SD slot for Removable  
storage cards upto 32GB for both Win CE

## Standard Communication

Full speed USB 1.1 from either cradle or direct  
sync cable RS232 (115 Kbps) from cradle

## Display

2.4 in, 240 x 320 pixel (QVGA) trans-missive  
TFT-LCD display, 65,536 (16 bit RGB) colors  
LED backlight, Touch Screen

## Wireless LAN

IEEE 802.11 b/g Data rates (11 Mbps/54 Mbps)  
Antenna: Internal  
Security: WIFI Certified for WPA/WPA2 operation  
Authentication: PEAP/MS-CHAPv2, EAP-TLS, CCX v4

## Wireless PAN

Integrated Bluetooth Class II, Version 2.0+EDR  
Operating channels: 0 to 78 (2402-2480 MHz)  
Data Rates: 1, 2, 3 Mbps  
Antenna: Internal

## Keypad Options

28-key numeric with shifted alpha and backlit keys;

## Accessories

Standard accessories: AC/DC charger  
with different country plug,  
Stylus pen with tether, Hand strap, Belt clip,  
Battery, LCD protection film  
Optional accessories: Single-slot cradle,  
Single-slot Ethernet Cradle, 4-slot battery  
charger, Direct USB Sync cable,

## Regulatory Approvals and Compliance

EMC: Class B – FCC/ICES/EN  
Radio: FCC w/HAC, CE2200  
Environmental: EU Directives-WEEE, RoHS,  
Batteries & Accumulators,  
Packaging & Water Packaging

## Standard accessories



AC/DC charger



Standard  
Battery

Stylus pen  
and tether



Belt clip

Hand strap



LCD  
protection film

## Optional accessories



Direct USB  
Sync cable

Single-slot  
charging cradle



Extended  
Battery

Battery  
Quad charger



Single-slot  
ethernet cradle

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