

# Orca 50

## Handheld Data Terminal



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## Features



### High Performance Computing Platform

Heavy duty applications such as massive data collection, 3D real-time display can be operated smoothly.



### Android 6.0

Android 6.0 system is installed, optimized version is continuously updated.



### Top Class Materials

CNC aluminum, nylon(Bayer) and 1.1mm thickness tempered glass offer excellent strength + heat dissipation + electromagnetic shielding. The soft material around the handle offers comfort.



### Industrial Grade Components

Industrial and military grade components ensure stability and endurance in harsh environments.



### Ultra Long Operating Time

Pistol style hotswapping battery system makes backup battery more convenient to be restored, so that the operating time is unlimited. A standard product package has two 6,000mAh batteries included.



### High End UHF RFID Engine

The M-2600 module is based on Impinj Indy R2000 chip, offers the best performance and excellent multi-tag identification ability in the industry.



### Outstanding Industrial Design

The idea was inspired by orca, and each single detail has been well refined. The appearance is compact, elegant and balanced, which makes the product eye-catching and impressive.



### Excellent Mechanical Protection

The safety drop height is 2m / 6.56ft, IP64 protection grade can resist dusts and splashes effectively.

## Mechanical Parameters

<b>Materials</b>	CNC aluminum + nylon(Bayer)
<b>Dimensions</b>	Profile 160*82*129mm Grip 111*38*47mm
<b>Weight</b>	640g( Include battery / Standard version)

## System Characteristics

<b>Operating System</b>	Android 6.0
<b>CPU</b>	Quad-core Cortex-A17/ 1.8 GHz
<b>GPU</b>	ARM Mali-T764/High performance 3D engine
<b>RAM</b>	2G LPDDR3 4G LPDDR3 (Optional)
<b>ROM</b>	32G EMMC 5.0 64G EMMC 5.0 (Optional)
<b>LCD</b>	5.0 inches / 1280*720 / IPS / 180° view angle
<b>Touch Screen</b>	1.1mm thickness tempered glass / 10-dot touch / Can be operated with glove
<b>Hotswapping Battery</b>	Pistol style hotswapping battery system
<b>PSAM</b>	PSAM*2 / TI TCA5013 (Optional)
<b>Buttons</b>	
Power / Volume*2	3 ALPS buttons / Operating force 2.2N / Operating life 600,000 cycles
Function Keys	3 ALPS buttons / Operating force 2.2N / Operating life 600,000 cycles
Scan Trigger	OMRON button / Operating force 1.27N / Operating life 10,000,000 cycles
<b>Power</b>	6,000mAh chargeable li-polymer battery
<b>Card Slots</b>	Micro SIM card slot / PSAM card slot*2
<b>USB Interface</b>	Micro USB / MOLEX connector / Operating life 10,000 cycles
<b>Audio</b>	Large speaker stereo system
<b>Vibrator</b>	Button style / 10mm diameter
<b>Charge Indicator</b>	Bicolor LED

## Wireless Communications

<b>WIFI</b>	IEEE802.11b/g/n
<b>Bluetooth</b>	Bluetooth 4.0
<b>3G</b>	Huawei MU 609 / Vehicle grade (Optional)
<b>4G</b>	Huawei ME 909s / Vehicle grade (Optional)

## Application Environment

<b>Operating Temp</b>	-20°- +60°
<b>Storage Temp</b>	-40°- +70°
<b>Humidity</b>	5%RH - 95%RH (Non condensing)
<b>Protection Grade</b>	IP64
<b>Safety Drop Height</b>	2m / 6.56ft.

## Data Collections

### 1D Bar Code (Optional)

Engine	Motorola EM1350
Support	UPC/EA Symbol SE955N / Code128 / Code39 / Code93 / Code11 / Interleaved 2 of 5 / Discrete 2 of 5 / Chinese 2 of 5 / Codabar/ MSI/RSS. etc.

### 2D Bar Code (Optional)

Engine	Honeywell N3680
Support	Data matrix / QR Code/ PDF417/ US Planet / UK Postal, etc.

### UHF RFID

Engine	M-2600 module based on Impinj Indy R2000 chip
Buzzer	Ø 12*9.5mm / 2300±300Hz
Protocol	EPC Global UHF Class 1 Gen 2 / ISO 18000-6C / ISO 18000-6B
Work Frequency	840-960MHz
Output Power	0-33dBm
Peak Inventory Speed	> 500 tags/s
UHF Antenna	3dBi circularly polarized antenna
Read Distance	6~7m(Tested tag: Impinj E41b)
Supported Regions	US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 China Japan Korea Malaysia

### Camera (Optional)

13 megapixels/automatic focus/flashlight

### Global positioning system

GPS&GLONASS

## Accessories



Two Batteries

Battery Bay

Charger&USB  
Data Cable

Hanging lace