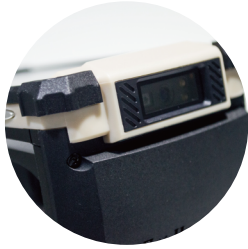# Orca 50

Handheld Data Terminal

Handheld Data Terminal

Features •

High Performance Computing Platform

Powerful hardware configurations to ensure applications like massive data collection, 3D real-time display can be operated smoothly.

Android 6.0

Android 6.0 OS, keep optimization and updating

Top Class Materials

CNC aluminum, PC+ABS (SABIC) body with 1.1mm thickness tempered glass offer excellent strength + heat dissipation + electromagnetic shielding features. Soft material around the handle offers a comfortable grip.

Industrial Grade Components

Industrial and military grade components ensure stability and endurance 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. (extra batteries are available)

High-end UHF RFID Engine

Equipped with self-developed Rodinbell M-2600 module based on Impinj R2000 chip, offering 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

Safety drop height 2m/6.56ft. With IP64 protection grade to resist dusts and splashes effectively.

Handheld Data Terminal

Mechaical parameters

Materials	CNC aluminum, PC + PC (SABIC)
Dimensions	160*80*129mm
	Grip 111*38*47mm
Weight	260g
	(standard version including battery)

System Characteristics

Operating System	Android 6.0
CPU	Quad-core Cortex-A17 / 1.8 GHz
GPU	ARM Mali-T764/High performance 3D engine
RAM +ROM	2G+32G
	4G+64G Optional✔
LCD	5.0 inches/ 1280*720 / IPS / 180°view angle
Touch Screen	1.1 mm thickness tempered glass/ 10- dot touch / operable with gloves
Hotswapping Battery	Pistol style hotswapping battery system
PSAM	PSAM*1 / Tl TCA 5013 Optional✔
Buttons	
Power / Volume*2	3 ALPS buttons/ Operating force 2.5N / Operating life 1,000,000 cycles
Function Keys	3 ALPS buttons/ Operating force 1.6N / Operating life 1,000,000 cycles
Scan Trigger	OMRON button / Operating force 1.27N/ Operating life 1,000,000 cycles
Power	4,000mAh chargeable Ii-polymer battery
Card Slots	Micro SIM card slot / PSAM card slot*1
USB Interface	Micro USB / MOLEX connector /Operating life 10,000 cycles
Audio	Large speaker stereo system
Vibrator	Button style / 10mm diameter
Charge Indicator	Bicolor LED

Wireless Communications

WIFI	IEEE802.11b / g / n
Bluetooth	Bluetooth 4.0
4G	Supported Optional✔

Application Environment

Operating Temp	-20°- +60°
Storage Temp	-30°- +70°
Humidity	5%RH - 95%RH (non -condensing)
Protection Grade	IP64
Safety Drop Height	1.2 m / 6.56ft

Data Collections

1D Barcode Optional✔

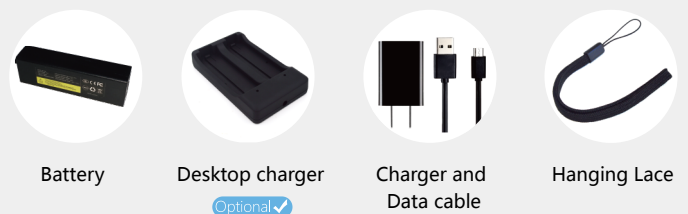|	
Engine	Motorola EM1350
Support	UPC/EA Symbol SE955N/Code128/ Code39/Code93/Code11/ Interleaved 2 of 5/ Discrete 2 of 5/ Chinese 2 of 5/Codabar/MSI/ RSS.etc.

2D Barcode Optional✔

Engine	Zebra SE4750, NLS EM3396, EM3296
Support	Data matrix / QR Code / PDF417 / US Planet / UK Postal, etc.

UHF RFID

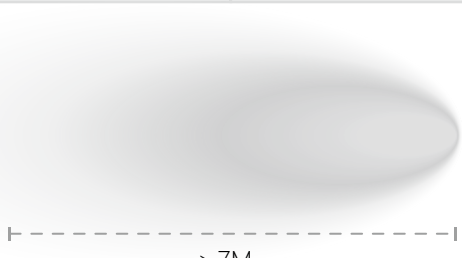|	
Engine	Rodinbell M-2600 module based on lmpinj lndy R2000 chip
Buzzer	Ø 12*9.5mm / 2300±300Hz
Protocol	EPC Global UHF Class 1 Gen 2 / ISO 18000-6C / ISO 18000-6B
Frequency	902-928MHz , 865- 868MHz Optional✔
Output Power	0~33dBm
Peak Inventory Speed	> 500 tags /s
UHF Antenna	3dBi ceramic antenna
Read Distance	> 7m
Supported Regions	US, Canada and other regions following US FCC
	Europe and other regions following ETSI EN 302 208
	China
	Korea
	Malaysia

Camera Optional✔   13 megapixels/ automatic focus/ flashlight

Global positioning system   GPS&GLONASS

Accessories

Battery	Desktop charger Optional✔	Charger and Data cable	Hanging Lace

Handheld Data Terminal

Performance comparison - Orca 50	
Size：160mm*82mm*129mm	**Weight**：640g

> 7M

(The test label：Impinj E41b)

Four color

Beige

Gray

Blue

Black