Orca 50

Handheld Data Terminal

1. Advantages

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 optimizing 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 + super long life cycle
Industrial-grade and military-grade components ensure stable operation in harsh environments. Over ten years of supply can be offered, which provides guarantee for the long term projects.

Ultra Long Operating Time
Pistol style hot-swappable 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 1.6m. With IP64 protection grade to resist dusts and splashes effectively.

2. Performance comparison

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

Read Distance > 8m

（The test label：Impinj E41b）
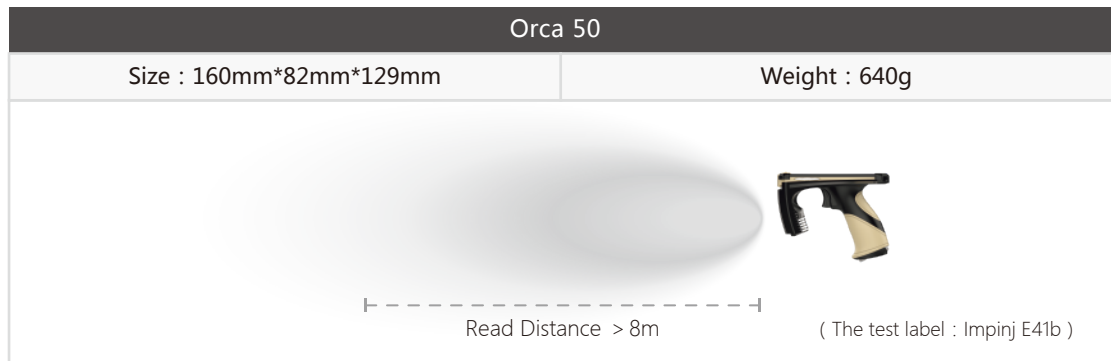
3. Product color

Beige

Black

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4. Electrical Parameters

Mechanical parameters

Materials	CNC aluminum, PC + ABS (SABIC)
Dimensions	160*82*129mm
	Grip 111*38*47mm
Weight	640g
	(battery included/standard version)

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 Buttons	Pistol style hotswapping battery system
Power / Volume	3 ALPS buttons/ Operating force 2.5N / Operating life 1 million cycles
Scan Trigger	OMRON button / Operating force 1.27N/ Operating life 10 million cycles
Power	6,000mAh chargeable li-polymer battery
Card Slots	Nano SIM card slot*1 / TF card slot*1
USB Interface	Micro USB / MOLEX connector /Operating life 10,000 cycles
Audio	Large speaker stereo system
Vibration	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	1.6m / 5.25ft

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 Impinj Indy R2000 chip
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	> 8m
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
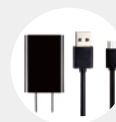
Battery	Desktop charger Optional✔	Charger and Data cable	Hanging Lace