Orca 30

Handheld Data Terminal

Salute to the classics   Newly upgraded

1. Advantages

High Performance Computing Platform

Octa-core 64-bit Cortex-A55 processor (up to 2.0 GHz), plus a 200M RISC-V Co-processor and an independent 2.0 TOPS NPU make all kinds of massive data processing smoothly.

Android 14.0

Android 14.0 OS, keeps optimizing and upgrading.

Top Class Materials

Cast Aluminium + PC body, with tempered glass provide excellent rigidity + heat dissipation + electromagnetic shielding features. Soft material around the handle offers a comfortable grip.

Industrial-grade Components

Industrial-grade and military-grade components ensure stable operation in harsh environments.

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 UHF RFID module, it is reputable in the industry for the outstanding reliability and stability and extremely strong multi-tag identification performance.

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. IP64 protection grade.

2. Electrical Parameters

Mechanical parameters

Materials	Cast Aluminium + PC
Dimensions	167mm*82mm*130mm
	Grip 111mm*38mm*47mm
Weight	615g （Battery included）

System Characteristics

Operating System	Android 14.0
CPU	Octa-core 64-bit Cortex-A55 /up to 2.0 GHz + a 200M RISC-V Co-processor
NPU	2.0 TOPS
GPU	G57 MC1
RAM+ROM	4G+32G
LCD	5.0 inches/ 1280*720 / IPS / 180°view angle
Touch Screen	1.1mm thickness tempered glass/ 10- dot touch/ operable with gloves
Hotswapping Battery	Pistol style hotswapping battery system
Power/Volume	3 ALPS buttons/ Operating force 2.2N / 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	USB 3.0 TYPE C (OTG supported)
Speaker Size	28mm*9mm*3.8mm
Vibration	Button style / 10mm diameter

Wireless Communications

WIFI	2.4G/5G Dual-Band
Bluetooth	Bluetooth 5.0
4G	Supported

Application Environment

Operating Temp	-20℃~+60℃
Storage Temp	-30℃~+70℃
Work Humidity	5%RH - 95%RH (non -condensing)
Protection Grade	IP64
Safety Drop Height	1.6m / 5.25ft

Data Collections

1D/2D Barcode

2D	Datamatrix/QRCode/PDF417 US Planet/ UK Postal, etc.
1D	UPC/EA Symbol SE955N/Code128/ Code39/Code93/Code11/Interleaved 2 of 5/ Discrete 2 of 5/Chinese 2 of 5/ Codabar/MSI/ RSS, etc.

UHF RFID

Sensitivity	-85dbm
Protocol	EPC Global UHF Class 1 Gen 2/ ISO 18000-6C
Frequency	902~928MHz, 865~868MHz Optional ✔
RF Output Power	0~33dBm
Peak Inventory Speed	>200tags/s
UHF Antenna	4dBi circularly polarized antenna
Read Distance	>12m
Supported Regions	US, Canada and other regions Following U.S. FCC Europe and other regions following ETSI EN 302 208 China Korea Malaysia

Camera	13 megapixels/ automatic focus/ flashlight
Global positioning system	GPS & GLONASS & Beidou

Accessories

Battery	Desktop Charger Optional ✔	Charger & Data Cable	Hanging Lace

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