

ORCA-50 Air



The ORCA-50-Air is the even more powerful version of the ORCA-50 PDA. Still equipped with a powerful RFID UHF reader, the antenna has been changed and offers reading capabilities up to 20m, under a weightier shape.

The ORCA-50-Air allows you to stay mobile and efficient everywhere.

Applications

- Logistics
- Retail
- Healthcare
- Electrical Power
- Gas inspection
- ...



Android



4G



WiFi



Bluetooth



UHF



1D Barcode



2D Barcode



Camera



GPS

General specifications

| | | |
|------------------|--|----------------------------------|
| Operating System | Android 6.0 | |
| CPU | Quad-core Cortex - A17 / 1.8GHz | |
| GPU | ARM Mali-T764 / High performance 3D engine | |
| RAM | RAM 2GB LPDDR3 | <u>Option:</u> RAM 4GB LPDDR3 |
| ROM | ROM 32GB EMMC 5.0 | <u>Option:</u> ROM 64GB EMMC 5.0 |
| Data collection | RFID UHF, 1D scanner (option), 1D/2D scanner (option) <i>(see next page)</i> | |

Physical parameters

| | | |
|---------------------|--|---|
| Dimensions / Weight | <u>Profile:</u> 167 x 82 x 129mm <u>Grip:</u> 111 x 38 x 47mm, 580g (standard vers., incl battery) | |
| Materials | CNC aluminium, PC+ABS (SABIC) | |
| LCD | 5.0 inches, 1280*720, IPS, 180° view angle | |
| Touch Screen | 1.1mm thickness tempered glass, 10 dots touch, operable with gloves | |
| Camera | <u>Option:</u> 13 megapixels, automatic focus, flashlight | |
| Audio | Large speaker stereo system | |
| Vibrator | Button style, 10mm diameter | |
| Charge indicator | Bicolor LED | |
| Power | 6,000mAh chargeable li-polymer battery | |
| Hotswapping Battery | Pistol style hotswapping battery system | |
| Card slots | Micro SIM card slot / SPAM card slot *1 / TI TCA5013 (option) | |
| USB Interface | Micro USB / MOLEX connector / Operating life 10,000 cycles | |
| Buttons | Power/volume | 3 ALPS buttons / Operating force 2.5N / Operating life 1,000,000 cycles |
| | Function keys | 3 ALPS buttons / Operating force 2.5N / Operating life 1,000,000 cycles |
| | Scan Trigger | OMRON button / Operating force 1.27N / Operating life 10,000,000 cycles |



RFID 



Wireless Communication

| | |
|-----------|---|
| Wifi | IEEE 802.11b/g/n |
| Bluetooth | Bluetooth 4.0 |
| GPS | GPS & Glonass |
| 4G | <u>Option:</u> Huawei ME 909s / Vehicle grade |
| 3G | <u>Option:</u> Huawei MU 609 / Vehicle grade |

Environmental Characteristics

| | |
|--------------------|---------------------------------|
| Operating temp | -20°C ~+60°C |
| Storage Temp | -30°C ~+70°C |
| Humidity | 5% RH - 95% RH (non condensing) |
| Water & Dust proof | IP64 protection grade |
| Safety Drop Height | 2m |

Data Collection

UHF

| | |
|----------------------|---|
| Engine | M-2600 module based on Impinj, Indy R2000 chip |
| Buzzer | Ø 12 x 9.5mm / 2300 +/- 300Hz |
| Protocol | EPC Global UHF Class 1 Gen 2 / ISO 18000-6C / ISO 18000-6B |
| Frequency | 865-868MHz, 902-928MHz |
| Output Power | 0-33dBm |
| Peak Inventory Speed | > 500 tags/s |
| UHF Antenna | 4dBi delectric antenna |
| Read distance | above 10m (tested with Impinj E41b inlay) |
| Supported regions | US, Canada, U.S.FCC, Europe & ETSI, EN 302 208, China, Japan, Korea, Malaysia |

Barcode Scanning (Option)

| | | |
|--------------------|---------|--|
| 1D Barcode Scanner | Engine | Motorola EM1350 |
| | Support | UPC/EA Symbol SE955N, Code128, Code 39, Code93, Code11, Interleaved 2 of 5, discrete 2 of 5, Chinese 2 of 5, codabar, MSI/RSS... |
| 2D Barcode Scanner | Engine | Honeywell N3680, NLS EM3396 |
| | Support | Data matrix, QR Code, PDF417, US Planet, UK Postal... |

Comparison between Orca-50 and ORCA-50-Air

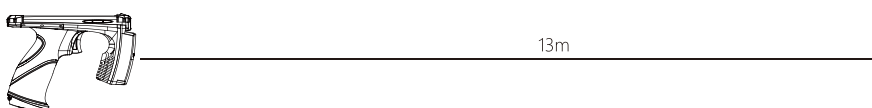
Orca-50



Size 160mm*82mm*129mm

Weight 640g

Orca-50-Air



Size 167mm*82mm*129mm

Weight 580g

tested with Impinj E41b inlay

ORCA-50-Air



Orders

Standard

ORCA-50-Air PDA, Android 6.0, Quad-core 1.8GHz CPU, 5" touch screen, UHF RFID
Accessories included: Battery, battery bay, charger & USB data cable, hanging lace

Options

| | | | |
|--------------------|---------------------|------------------|--------|
| 1D Barcode Scanner | RAM upgrade to 4Gb | 3G communication | Camera |
| 2D Scanner | ROM upgrade to 64Gb | 4G communication | |