



iData 50P

Android touch control terminal

Great value for all Kinds of business

iData 50P is an Android touch terminal which is similar to a smartphone yet with reasonable cost. Equipped with enterprise-level data collection and network communication, it can work both indoor and outdoor. The ultra-rugged design empowers the device to combat with all kinds of difficulties at work.

Serving all your purposes

The 8-core 2.0GHz high-performance processor enables you to run various applications smoothly, including order fulfillment, voice or video calls, card scanning and recognition, etc.

Enterprise-level data capture

Built for enterprise-level application, the scan engine works far ahead of smartphones. It can capture barcodes quickly, including express form codes, cargo barcodes and commodity barcodes despite of whether they are damaged or contaminated barcodes, or in a poor light environment.

Enterprise-level network support

Able to connected to Wi-Fi or 4G network to work both indoor and outdoor. The high-performance 5G PA amplifier can improve the 5G signal transmission significantly to meet faster transmission rate requirements in complex environments.



Store management



Inventory management



E-commerce shipment



Production management

50P Technical Specifications

System Configuration

| | |
|------------------------------|---|
| Processor | Octa-core 2.0GHz high-performance processor |
| Operating System | Android 9.0 (GMS) /Android 11.0 (GMS) |
| Memory (ROM + RAM) | 64GB + 4GB (standard) |
| SIM | Single SIM card |
| Expansion Slot | Micro SD card (up to 256GB) |
| Display Screen | 4.7-inch, resolution: 1280*720 pixels |
| Touch Screen | Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch/gesture operation |
| Camera | 13MP rear camera, support auto-focus/PDAF, compatible with 5MP front camera |
| Flashlight | 800mA flashlight |
| Keypad | 9 keypads in total: front key*4, side scan key *2, side power key *1, side customize key *2 |
| Battery | 3.85V lithium battery, with 4000mAh, detachable |
| Audio | Built-in microphone |
| Charging Method | Type-C charging and pin port charging, support 18W fast charging |
| Reminder | Vibration reminder/LED reminder/Audio reminder |
| Vibrating Motor | Built-in vibrating motor |
| Sensors | G-sensor/ Proximity sensor/Light sensor |
| Intercom Function (Optional) | Support one-button PTT calls |

Structure Parameter

| | |
|-------------------|---|
| Dimension (L*W*D) | 150mm*73.5mm*16mm (the head is 24mm in thickness) |
| Weight | 230g (including the battery) |

Environmental Parameter

| | |
|---------------------|---|
| Working Temperature | -20°C - 60°C *Do not charge under low temperature conditions for the safety concerns |
| Storage Temperature | -40°C - 70°C (without the battery) |
| Humidity | 0 - 95% (no moisture condensation) |
| Drop Specification | Multiple drops to marble floor from the height of 1.5m |
| Ingress Protection | IP67 |
| ESD Protection | ±15KV (air discharge), ±8KV (contact discharge), anti-surge design |

Communication Interface

| | |
|---------------|-----------------------------------|
| USB Interface | Type-C (with headset function) *1 |
| OTG Interface | Support |

Scanning Engine

| | |
|------------------------|--|
| Barcode Type | It can scan one-dimensional / two-dimensional barcodes |
| Scanning Accuracy | ≥3.33mil |
| Scanning Angle | Pitch: ±60°; Skew: ±45°; Tilt: 360° |
| View Angle | Horizontal: 44.3°, Vertical: 28.4°, Diagonal: 51° |
| Motion Error Tolerance | 8m/s |

Communication Transmission

| | |
|--------------------------|--|
| WWAN (Network Frequency) | China & Eurasian version: 2G: B2/B3/B5/B8 3G: WCDMA: B1/B5/B8, CDMA&EVDO: BC0, TD-SCDMA: B34/B39 4G: FDD-LTE: B1/B3/B5/B7/B8/B20, TDD-LTE: B34/B38/B39/B40/B41 American version: 2G: B2/B3/B5 3G: B1/B2/B4/B5, CDMA&EVDO: BC0/BC1 (The United States) 4G: B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41 |
| WWAN (Data Service) | GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO /WCDMA/TD-SCDMA/TDD-LTE/FDD-LTE |
| WLAN Function | Wi-Fi 802.11 a/b/g/n/ac/d/e/h/i/j/k/r/v (2.4G + 5G dual-band Wi-Fi), support fast roaming, support Wi-Fi 5G PA amplifier |
| Bluetooth | Bluetooth 5.0 |
| GPS | GPS/AGPS/BDS/Galileo/GLONASS |
| PSAM Card | Support |

NFC (Optional)

| | |
|------------------------|------------------------|
| Working Frequency | 13.56 MHz |
| Reading Distance | Within 30 mm |
| Communication Protocol | ISO14443A/14443B/15693 |

Development Support

| | |
|----------------------|--|
| Programming Language | Java |
| Development API | iScan API (Scanning Development Kits), Device API (Device Management/Configuration Development Kits), Android Standard Interface |
| Development Tool | Eclipse/Android Studio |

Accessories (More details in accessories guide)

| | |
|----------------------|---|
| Standard Accessories | USB cable*1, power adapter*1, hand strap*1, battery*1 |
| Optional Accessories | Single charging cradle, bottom charger, 4-slot charging cradle, 4-slot battery charging cradle, pistol grip, fanny pack, protective film, protective case, 2-in-1 charging cradle |

The information of iData products and software service may be subject to change without notice. Please contact your iData sales representative for the latest details.



Official Website

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Each product comes with a pack of practical and cost-effective accessories

USB Cable

Type-C to USB cable, 1m in length, support charging and data transmission



CHA-USBC-GNR

Hand Strap

Wear on your wrist to carry the device, avoid accidental drops, and assure the safety of equipment



MNT-HS-GNR

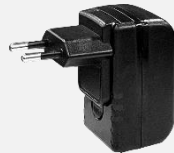
Power Adapter

Input voltage 100-240V, output 5V2A. Support plug types of China/Europe/UK/US/Australia, match with CHA-USBC-GNR

ps: you may have one of the power adapters as below



CHA-PWAD-GNR-5V2A-CN



CHA-PWAD-GNR-5V2A-EU



CHA-PWAD-GNR-5V2A-UK



CHA-PWAD-GNR-5V2A-US



CHA-PWAD-GNR-5V2A-AU

Battery

4000mAh, detachable design.

ps: every product comes with 1 unit, you can purchase extra unit



CHA-BTRY-50P-4000MA

Improve management efficiency of devices and operational level of enterprises

Bottom Charger

Bottom charger for the main unit, support charging for 1 device. USB-A port, can connect with CHA-PWAD-GNR-5V2A-XX accessory



CHA-BTC-50

Battery

4000mAh, detachable design.

ps: every product comes with 1 unit, you can purchase extra unit



CHA-BTRY-50P-4000MA

Single Charging Cradle

Support charging for 1 main unit. Support plug types of China/Europe/UK/US/Australia

ps: you may have one of the power adapters



CHA-CRD1S-50

4-slot Charging Cradle

Support maximum charging of 4 main units at the same time.

Support plug types of China/Europe/UK/US/Australia

ps: you may have one of the power adapters



CHA-CRD4S-50

4-slot Battery Charging Cradle

Support maximum charging of 4 batteries at the same time. Support plug types of China/Europe/UK/US/Australia

ps: you may have one of the power adapters



CHA-CRD4B-50

2-in-1 Charging Cradle

Support charging of 1 main unit and 1 battery at the same time. Support plug types of China/Europe/UK/US/Australia

ps: you may have one of the power adapters



CHA-BTC21-50

Improve device portability and comfort for users, boost working efficiency

Pistol Grip

Pistol grip for main unit. Execute barcode scanning by pressing the grip trigger. Only those main units with pin port on the back are compatible



MNT-PG-50

Fanny Pack

Used to carry main units and other accessories. Can be tied to the waist or used as a crossbody bag



MNT-FP-GNR

Lower risks of malfunction during usage, extend lifespan of devices

Protective Film

Protective film for touchscreen. It can protect the screen from cracking or being scratched in case there's any accidental drops or impact during usage



PRT-PTF-50

Protective Case

Protective case for the main unit. It can prevent the malfunction of main unit in case there's any accidental drops or impact during usage



PRT-PTC-50

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