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)	16GB + 2GB (standard), 64GB + 4GB (optional)
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	8 megapixels of rear camera (optional: 13 megapixels), 5 megapixels of 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℃ - 60℃ *Do not charge under low temperature conditions for the safety concerns
Storage Temperature	-40℃ - 70℃ (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

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
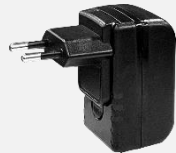
MNT-BS-50P

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-FP-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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