iData P1 mini

Thin & Rugged Android Industrial Tablet

Designed to enhance efficiency by building outstanding productivity

iData P1 mini is a new generation of thin and rugged Android industrial tablets. It adopts an 8-inch screen, with a thin and light main body, making it convenient for on-site operations. Its powerful configuration can meet the operation needs of enterprises in the next 3 to 5 years. Equipped with iData’ s latest scanning engine, it can improve operating efficiency significantly; Besides, it has a sturdy and durable housing design, making it genuinely competent in store management, warehouse management, production management, equipment inspection, etc.

Excellent ergonomic design, convenient for on-site operations

Adopts an 8-inch screen, weighs only 580g, 13.3mm in thickness. This ultra-thin main body, together with first-of-its-kind side-edge dual scan buttons, makes it more convenient for users to work on-site. The whole device is extremely compact and small in size but has rich functional interfaces. It supports various interfaces, including type-C, USB, bottom pin port, and DC power port, making it convenient to access various terminals on-site.

Outstanding performance to meet long-term use requirements

Regardless of core configurations such as processors and memory, as well as functional features such as front and rear cameras, large speakers, and accessories, all of them can satisfy the company's operational needs in the next 3 to 5 years; In particular, equipped with iData's latest generation self-developed scanning engine, it's able to reach longer scanning distance and wider reading range, making on-site operations more efficient.

Sturdy and rugged, suitable for complex scenarios

The sturdy housing design makes the device more competent to work in complex environments. No matter if it falls to the ground accidentally or is even washed by water, the device can still operate normally; It is ultra-thin but has a long battery life. The large 7000mAh battery can survive an entire long shift, making it more reliable for long-term usage.

P1 mini Technical Specifications

System Configuration

Processor	Octa-core 2.0GHz high-performance processor
Operating System	Android 13.0
Memory (ROM+RAM)	64GB + 4GB (standard)
SIM	Two out of three SIM card slots, support dual SIM and dual standby. *Two out of three SIM card slots: two cards can be inserted at the same time, Nano SIM card + Nano SIM card /Nano SIM card +TF card
Expansion Slot	Micro SD card (up to 512 GB)
Display Screen	8-inch, resolution: 1280*800 pixels
Touch Screen	Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch operation
Camera	13 megapixels rear camera, support PDAF/ auto-focus; 8 megapixels front camera
Flashlight	1A flashlight
Keypad	5 keypads in total: front scan key *2, power key on top *1, volume key on top *2
Battery	3.85V lithium battery, with 7000mAh, embedded
Audio	Microphone
Charging Method	Type-C charging, DC power interface and pin-port charging, support 18W fast charging
Reminder	Vibration reminder/LED reminder/high power speaker/audio reminder
Vibrating Motor	Built-in vibrating motor
Sensors	G-sensor/Proximity sensor/Light sensor/Geomagnetic sensor/ Gyroscope
Intercom Function (Optional)	Support one-button PTT calls

Structure Parameter

Dimension (L*W*D)	217mm*145mm*13.3mm
Weight	580g (battery included)

Environmental Parameter

Working Temperature	-10°C - 50°C *Do not charge under low-temperature conditions for safety concerns
Storage Temperature	-30°C - 70°C (without battery)
Humidity	10%- 95% (no moisture condensation)
Drop Specification	Multiple drops resistance from the height of 1.2m
Roller Drop Specification	1000 times of roller drops from a height of 0.5 meter
Ingress Protection	IP65
ESD Protection	±15KV (air discharge), ±8KV (contact discharge)

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)	2G: B2/B3/B5/B8 3G: WCDMA: B1/B2/B5/B8 4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B28A/ B28B/B34/B38/B39/B40/B41
WWAN (Data Service)	GSM/GPRS/EDGE/UMTS/HSPA/HSPA+/WCDMA/TDD-LTE/FDD-LTE
WLAN Function	Wi-Fi 802.11a/b/g/n/ac (2.4G + 5G dual-band Wi-Fi), support fast roaming
Bluetooth	Bluetooth 5.0 BLE
GPS	GPS/AGPS/BDS/Galileo/GLONASS/QZSS

NFC (Optional)

Working Frequency	13.56 MHz
Reading Distance	Within 40 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

Communication Interface

USB Interface	Type-C 3.0 (with headset function) *1, Type-A USB 2.0*1, Micro HDMI interface *1
Power Interface	DC power interface*1
OTG Interface	Support

Accessories (More details in accessories guide)

Standard Accessories	USB cable*1, device-back strap *1, power adapter*1
Optional Accessories	Power adapter (fast-charging), charging dock, extension dock, protective film, multifunctional cradle(square U-bolt clamp), multifunctional cradle(round U-bolt clamp)

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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P1 mini Standard Accessories

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

Device-back Strap

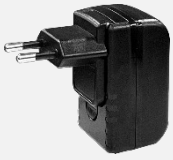
Attach on the device back to help you hold the device easily and firmly, avoid accidental drops

MNT-BS-P1 mini

Power Adapter

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

ps: choose one that fits your local standard



CHA-PWAD-GNR-5V2A-EU

P1 mini Optional Accessories for Charging

Improve management efficiency of devices and operational level of enterprises

Power Adapter (fast-charging)

Input voltage 100-240V, output 9V2A. Support plug types of China/Europe/UK/US/Australia, match with CHA-USBC-GNR

ps: choose one that fits your local standard

CHA-PWAD-P1-9V2A-EU

Extension Dock

Support charging for 1 main unit+1 battery at the same time. Support 3 Type-A interfaces, 1 Type-B interface, 1 RS232 interface, 1 RJ45(1000Mbps)interface. It can be used to expand other accessories.

CHA-EXTD-P1

P1 mini Optional Accessories for Charging

Accessories Guide

Improve management efficiency of devices and operational level of enterprises

Charging Dock

Support charging for 1 main unit. The device starts charging when matching with CHA-USBC-GNR and CHA-PWAD-P1-9V2A-CN accessories.

CHA-CHAD-P1

P1 mini Optional Accessories for Portability

Accessories Guide

Enhance user experience and improve working efficiency

Multifunctional Cradle
(Square U-bolt clamp)

The U-bolt clamp is square-shaped, and the joint can be rotated flexibly. This cradle is able to mount the tablet onto workstations, IPCs, and vehicles to improve working efficiency.

MNT-MC-P1-SQ

Multifunctional Cradle
(Round U-bolt clamp)

The U-bolt clamp is round-shaped, and the joint can be rotated flexibly. This cradle is able to mount the tablet onto workstations, IPCs, and vehicles to improve working efficiency.

MNT-MC-P1-RD

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P1 mini Optional Accessories for Protection

Accessories Guide

Lower risks of malfunction during usage, extend the 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-P1 mini

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