iData K1S
Android Keyboard/Touchcontrol Terminal

Time-tested & cost-effective option

iData K1S is an ultra-rugged Android keyboard-type smart terminal, which is time-tested in many scenarios such as new retail business, warehouses, manufacturing plants, express and logistics, etc. It improves the working capacity without increasing your purchase cost. By adding a pistol grip, K1S is able to deal with high-frequency scanning in inventory process.

Multifunctional to meet requirements of different scenes
Equipped with iData's self-developed scanning engine, K1S can easily scan damaged, dirty, DPM barcodes, etc. The breakthrough Wi-Fi roaming technology, as well as the 5G PA amplifier, enable a better network experience in complex environments.

Battery life designed for 1.5 shifts
The 4400mAh large battery can be used for 12 hours, which can meet the needs of long shifts and reduce the loss caused by equipment downtime. The battery is detachable so that it can work continuously right after the battery replacement.

Enterprise-level protection to reduce malfunction losses
IP65 makes the equipment waterproof, dustproof, rainproof and snowproof. It can work the sun and rain environments outdoors. The 1.5-meter anti-drop design enables users to mount the equipment on forklifts, shelves and other heights confidently. This device is designed to survive accident drops.

Store management   E-commerce shipment   Warehouse management   Inventory management

K1S 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)	32GB + 3GB (standard), 64GB + 4GB (optional)
SIM	Single SIM card
Expansion Slot	Micro SD card (up to 256GB)
Display Screen	4-inch, resolution: 800*480 pixels
Touch Screen	Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch/gesture operation
Camera	13 megapixels of rear camera, support auto-focusing/PDAF
Flashlight	800mA flashlight
Keypad	26 keypads: front key*23, side scan key *2, side power key *1
Keyboard Backlight	White
Battery	3.8V lithium battery, with 4400mAh, detachable, backup-battery support (support on selected terminals)
Audio	Built-in microphone
Charging Method	Type-C charging and pin port charging
Reminder	Vibration reminder/LED reminder
Vibrating Motor	Built-in vibrating motor
Sensors	G-sensor/ Proximity sensor/Light sensor
Intercom Function (Optional)	Support one-button PTT calls

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 802.11a/b/g/n/r/ac/i/k/v (2.4G + 5G dual-band Wi-Fi), support Wi-Fi 5G PA amplifier
Bluetooth	Bluetooth 5.0, support BLE
GPS	GPS/AGPS/BDS/Galileo/GLONASS/QZSS

Structure Parameter

Dimension (L*W*D)	168mm*71mm*26mm
Weight	270g (including the battery)

NFC (Optional)

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

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 concrete floor from the height of 1.5m
Roller Drop Specification	500 times of roller drops from a height of 0.5 meter
Ingress Protection	IP65
ESD Protection	±15KV (air discharge), ±8KV (contact discharge)

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, device-back 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

Communication Interface

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

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

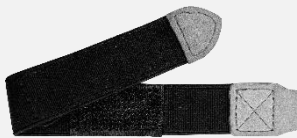CHA-USBC-GNR

Hand Strap

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

MNT-HS-GNR

Device-back Strap

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

MNT-BS-K1

Battery

4400mAh, detachable design.

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

CHA-BTRY-K1S-4400MA

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

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

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-K1

Battery

4400mAh, detachable design.

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

CHA-BTRY-K1-4400MA

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-K1

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-K1

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-K1

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-K1

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-K1

Official Website