

iData K1S Cold Mobile Intelligent Terminal

Mobile terminal for cold chain



> **Breaking through the cold to "scan" obstacles**

Vacuum coating process is applied to the scanning head window glass for frequent switching without fog in high and low temperature. With this, employees can rapidly start scanning codes without cleaning windows when using the device, thus greatly improving work efficiency.

Scanning distance of up to 21.4m is supported, aiming at the high-level shelves in cold storage operation, so that employees can easily complete the scanning without approaching. More labor-saving operation can be seen.

> **Comfortable operation in low temperature environment**

Vacuum coating process is adopted for the screen with glove mode and wet hand operation, so that the employees will not be influenced by such problems as water and fogging in low temperature environment.

The keyboard and wide touch can simplify data input. Whether it is touch screen or physical keyboard input, employees can rapidly operate the device to meet their needs.

Ergonomic design and unique back groove can enable employees to have a comfortable feeling when using the device. It is not fatigue to use the device for a long time, and will not cause the slippery of device in low temperature and humidity.

> **The device is designed for more stable operation in low temperature**

The redesign of the device body protection enhances the protection of the whole device further for better sturdiness and durability. In addition, the redesign can avoid the moisture generated in low temperature affecting the service life of the device to reduce cost.

Special cold chain low-temperature battery (5900mAh) can ensure long-term operation for more than 10 hours at -30°C, thus enabling employees to easily use one shift.

> **High-performance platform for more efficient operation**

High-performance core configuration, such as CPU, memory, Wi-Fi, Bluetooth, etc. are installed in iData K1S, thus providing employees with a higher using experience.

With 8-core 2.0GHz high-performance processor and Android 9.0, a cost-effective high-performance platform will bring higher cost performance.

2.4G + 5G dual-frequency Wi-Fi and 5G PA amplifier maintain superior anti-interference performance in low temperature. Low delay of data transmission ensures stable data transmission, thus helping management staff receive the returned data in time and facilitating background management.

Market Application

Logistics

- Cold storage warehousing management
- Cold storage inventory management

Health care

- Vaccine traceability
- Drug traceability
- Blood bag management

System Configuration

Processor	Octa-core 2.0GHz high-performance processor
Operating system	Android 9.0
Memory (ROM+RAM):	16GB +2GB, optional 32GB + 3GB/64GB + 4GB/128GB + 6GB
SIM	Single SIM card
Expansion slot	Micro SD slot (up to 256GB)
Display screen	4 inches, resolution of 800*480 IPS
Touch screen	Industrial capacitive screen, supporting wet-hand operation/glove mode/multi-touch/gesture operation
Camera	8 megapixels rear camera, optional 13 megapixels optional with auto focus and PDAF supported
Flashlight	800mA flashlight
Keyboard backlight	White
Keyboard	IMD wear-proof 26 keys, wear-proof, internal transparent industrial IMD keyboard
Battery	3.6V lithium battery, with 5900mAh, detachable
Audio	Built-in microphone
Charging mode	Type-C charging, the maximum charging power of 5V/2.4A
Prompts	High power horn/scanning prompt LED/charging prompt LED/vibration prompt
Vibrating motor	Built-in vibrating motor
Sensor	G-sensor, proximity sensor, light sensor, geomagnetic sensor, and gyroscope
Intercom function (optional)	Supporting one-button PTT calls

Structure parameters

Dimension (LxWxD)	168mmx71mmx33mm
Weight	342g (including battery)

Communication Transmission

Wireless wide area network (Network frequency)	Domestic & Eurasian version 2G: B2/B3/B5/B8 3G: WCDMA:B1/B5/B8, CDMA BC0, TD-SCDMA:B34/B39 4G: FDD-LTE:B1/B3/B5/B7/B8/B20,TDD-LTE:B34/B38/B39/B40/B41 North American version 2G: B2/B3/B5 3G: B1/B2/B4/B5, CDMA BC0/BC1 (America) 4G: B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41
Wireless wide area network (Data service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO/WCDMA/TD-SCDMA/TDD -LTE/FDD-LTE
Wireless local area network	Wi-Fi 802.11a/b/g/n/r/ac (dual-frequency Wi-Fi: 2.4G+5G) Wi-Fi 5G PA amplifier
Bluetooth	Bluetooth 5.0, supporting BLE
GPS	GPS/AGPS/Glonass/BDS/Galileo/QZSS

Operating environment

Supported languages	Android standard interface, Java, secondary development SDK, API and DEMO
Working temperature	-30°C ~ 50°C
Storage temperature	-40°C ~ 70°C
Humidity	0-95% (Non-condensing)
Drop specification	Multiple drops to concrete floor from the height of 1.5m
Roller drop specification	0.5m rolling of 500 rounds (equivalent to 1,000 impacts)
Protection level	IP65

Electrostatic protection	±15KV (air discharge), ±8KV (contact discharge)
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NFC (Optional)

Frequency	13.56 MHz
Reading distance	Within 30mm
Communication protocol	ISO14443A/14443B/15693

Input/output Interface

USB interface	1port, with a 2pin charging interface
Charging interface	Type-C, with headset function
OTG interface	Support

Peripheral devices and accessories

Standard accessories	USB cable, Power adapter, Hand strap, Wrist strap
Optional accessories	Single cradle, 4-slot device cradle, pistol grip, Carry case, Bottom charging cable



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