

# iData W7 High-performance Wearable Computer

## An AI-powered computing power terminal that frees up hands

iData W7 high-performance AI-powered wearable computer: Featuring wearability, W7 is also an efficient engine for mobile productivity. Specially designed for high-intensity mobile operations such as warehousing, manufacturing, and logistics, with three major advantages of AI computing power, industrial grade protection, and hot-swappable battery, it completely eliminates interruptions caused by handheld devices and achieves seamless human-machine collaboration. Engineered to achieve the optimal balance between high performance and low total cost of ownership (TCO), this solution transforms frontline operations.

### Improve operational efficiency and reshape operational processes

- **Hands-free continuous operation: completely freeing hands, eliminating frequent equipment movements, and not hindering tasks such as moving goods and driving**
- **Easy access to information by lifting the hand: the large screen can be seen immediately, the information is clear at a glance, and accurate instructions can be obtained at any time, effectively reducing errors and reworking**
- **Hot swappable: Battery can be replaced without shutting down, tasks and data are continuously online, achieving true "non-stop" operations**
- **High performance hardware base: New generation Octa-core 2.6GHz 10Tops computing power+WiFi 6E, ensuring smooth and stable operation of complex applications, and reserving functions for future upgrades.**

**Key benefits: By designing with hands-free, information driven, and coherent operations, hardware advantages are transformed into action and time savings at every step, directly improving per capita output and task completion speed.**

### Ergonomic design, comfortable to wear

- **Professional arm-mounted design: low center of gravity distribution, fitting the natural curve of the arm, stable and not easy to shake, significantly reducing the muscle burden of long-term work.**
- **Modular quick release system: The host can be easily accessed and removed with just one click, the battery can be easily replaced, and a dedicated wristband can be used, balancing flexible operation and hygiene management**
- **All condition operation screen: Made of Corning Gorilla Glass, supporting gloves, floating touch, combined with wide temperature range working ability, not afraid of low temperature or humid environments.**
- **Minimalist intelligent interaction: Under screen NFC enables "one touch connection" of peripherals, coupled with clear multi-dimensional feedback, intuitive and smooth operation, improving job safety and efficiency.**

**Key benefits: Greatly reduce fatigue and learning barriers, increase employee willingness and satisfaction to wear, and ensure that efficient tools can be enjoyed for long-term use.**

### Optimal Total Cost of Ownership (TCO)

- **Industrial grade sturdy protection: IP67+1.5m industrial protection, dustproof, waterproof, drop resistant and durable, aiming to reduce failure rate, maintenance frequency and associated costs.**
- **Modular and easy to maintain design: The battery and wristband adopt detachable independent modules, which can be quickly replaced separately, significantly reducing spare parts costs and maintenance complexity**
- **Efficient centralized operation and maintenance: Multiple charging of equipment and batteries, enterprise level MDM management platform, enabling batch deployment and remote control, greatly simplifying daily operation and maintenance, and saving IT manpower**
- **Long term investment guarantee: Based on the new generation hardware platform and committed to continuous system updates, ensure that the equipment remains available in the long term through rapid technological iteration, effectively diluting the annual average usage cost.**

**Key Benefits: A durable design—characterized by low damage rates, easy repair, and simplified management—directly reduces the total cost of ownership (TCO) and delivers a higher return on investment (ROI) over the equipment's entire lifecycle.**







## W7 Industry Applications

### Warehouse E-commerce

Picking/sorting
Receiving/stocking
Replenishment/delisting
Return
Inventory
Packaging

### Retail Industry

Inventory
Inbound/outbound
Sales scanning
Promotion verification
Inventory inspection
Member confirmation

### Manufacturing Industry

WIP Tracking
Material preparation
Issuing verification
Inventory management
Quality inspection and control
Assembly binding

### Express logistics

Picking/sorting
Receiving/stocking
Replenishment/delisting
Picking/transit
Loading
Receiving

### Healthcare Industry

Sample collection and verification
Entry of medical record information, medicine delivery verification

# W7 Technical Specifications

## System Configuration

| | |
|---|---|
| Processor | Octa-core 2.6GHz high-performance processor |
| Operating system | Android 15.0 |
| Memory (ROM+RAM) | 64GB+4GB (standard), 64GB+8GB (optional) |
| SIM/Expansion Slot | Not supported, WiFi Only |
| Display screen | 4.7 inches, resolution 1280 * 720 HD screen, Corning CG3 |
| Touch screen | Industrial grade capacitive screen, supporting wet hand operation/glove mode/multi-touch control |
| Camera | Rear 13 million pixels, supporting PDAF focusing;<br>Front 5 million pixels |
| Flashlight | 1A high brightness flash |
| Keyboard | Total of 6 keys: Power, Menu, Home, Back, F1 (default V+), F2 (default V -) |
| Battery | Lithium battery 3.6V power supply, 3300mAh (standard), detachable; *Execution standard GB31241-2022 |
| Audio | Built in dual microphones (supporting noise cancellation) |
| Charging method | Type-C charging and pin port charging, supporting 18W PD fast charging |
| Notification | LED prompt/vibration prompt/audio speaker |
| Vibration Motor | Built-in vibration motor |
| Sensor | Gravity Sensor (G-Sensor)/Proximity Sensor/Light Sensor |
| Intercom (optional) | Support Push-to-talk calls |

## Structural parameters

| | |
|---|---|
| Size (H * W * D) | 132mm×93mm×13mm |
| Weight | 268g (including standard battery) |

## Environmental parameters

| | |
|---|---|
| Operating Temperature | -20℃~55℃<br>*For safety reasons, please do not charge in low temperature environments |
| Storage temperature | -30℃~70℃ |
| Humidity | 0-95% (no condensation) |
| Drop specifications | Multiple drops to concrete at 1.5m |
| Tumbling testing | 1000 cycles from a 0.5m drop height |
| Protection level | IP67 |
| Electrostatic Discharge | ± 15KV (air discharge), ± 8KV (contact discharge) |

## Communication interface

| | |
|---|---|
| USB port | Type-C*1（USB3.0） |
| OTG interface | Support |

## Data collection

| | |
|---|---|
| Ring scanner (need additional purchase) | Paired with RS300, NFC pairing or scan code to pair, or HID connection |
| | Paired with RS200, scan code to pair, or HID connection |
| Camera | Rear Camera 13MP, PDAF; Front camera 5MP |
| NFC | ISO 14443 Type A and B; FeliCa and ISO 15693 cards; NFC Forum cards 2 to 5 |
| | Frequency 13.56MHz |

## Communication transmission

| | |
|---|---|
| Wireless Local Area Network (WLAN) | WiFi 6E, Support 2x2 MU-MIMO, 2.4G/5G/6G |
| Bluetooth | Bluetooth 5.3， Support BLE |

## Development support

| | |
|---|---|
| Dev language | Java |
| Dev API | iBond API (Scan Development Kit), Device API (Device Management/Configuration Development Kit), Android Standard Interface |
| Dev tools | Eclipse/Android Studio |

## Accessories

| | |
|---|---|
| Standard | Wrist support * 1, wristband * 1 set, USB data cable * 1, power adapter * 1, battery * 1 |
| Optional | 2-in-1 charging cradle, 4-slot battery charging cradle, 4-slot charging cradle, multi-functional 5-slot charging base, protective film |