iData 95W

The iData 95W is a new mobile computer developed by Wuxi iData Technology Company Ltd. for mobile field service. It is designed to connect your mobile workforce to the enterprise for real-time access to business information and data exchange.

Adopting Android 4.4 operating system, the iData 95W provides user friendly operation interface, supports versatile functions like 1D/2D barcode scanning, RFID tag reading, NFC, infrared communication modules, GPS, photographing, voice communication, and Wi-Fi, and is widely used in various fields, such as retail, manufacturing, fast moving consumer goods, clothing, food safety tracing, logistics, warehousing, governments and public utilities. Featuring high performance and high reliability, the iData 95W can help enterprises boost productivity and gain a higher return on investment.

Five strengths

● **Advanced configuration**
➢ Android 4.4 operating system for more compatibility and better user experience;
➢ High-performance quad-core 1.3 GHz processor and 8GB ROM + 1GB RAM memory for higher running speed;
➢ Supporting the G-sensor function to use corresponding software according to users' actions.

● **Industrial-grade capacitive touch panel**
➢ Industrial-grade capacitive touch panel for easy operation and higher flexibility;
➢ Supporting operation with gloves and meeting the requirements for mobile operation in complex environments such as low temperature and field;
➢ Equipped with a 3.5-inch RETINA display screen with higher resolution (640 x 960 pixels).

● **Powerful data collection**
➢ Equipped with advanced scanning engines to read not only 1D/2D barcodes normally printed on traditional media, stained, or covered with plastic film but also barcodes displayed on mobile phones and computer screens;
➢ Exit window made of Corning® Gorilla® glass for a better scratch-resistance, a higher light transmittance, and more quick and accurate scanning;
➢ Equipped with built-in RFID read/write modules to quickly and accurately read RFID tags in batches.

● **Multiple wireless communication modes**
➢ Supporting WCDMA/ GPRS/HSPA+/GSM in a wireless wide area network (WAN) and other wireless communication modes;
➢ Supporting Wi-Fi transmission in a local area network (LAN);

➢ Supporting NFC transmission, convenient pairing;
➢ Supporting a high performance GPS navigation chip for more accurate positioning.

● **Fast charging scheme**
➢ Supporting fast charging scheme for higher work efficiency;
➢ Adopting a 3.7V 4000 mAh rechargeable lithium polymer battery (6000 mAh battery optional) for long time mobile operation.

Main Functions

➢ Supporting Android 4.4 operating system
➢ Supporting WCDMA / HSPA+ / GPRS / GSM, Wi-Fi, NFC and other wireless communication modes
➢ Supporting 1D/2D barcode scanning or image scanning
➢ Supporting a 13.56 MHz HF RFID read/write module for RFID tag reading
➢ Supporting an IR communication module for data collection
➢ Supporting a built-in autofocus 5 Mega pixel camera for photographing and video recording

Technical Specifications

● **System Configuration**

CPU	High-performance quad-core 1.3 GHz processor
Operating System	Android 4.4
Memory	8 GB ROM+1 GB RAM
Expansion Slot	Mini SD card, up to 32 GB
Display	3.5-inch RETINA display (640 x 960)
Touch Panel	Industrial-grade capacitive touch panel (supporting operation with gloves)
Camera (optional)	5 Mega pixel, autofocus lens, LED flash
Exit Window	Corning® Gorilla® glass
Keypad	Durable industrial keypad with interior transmission light
Battery	3.7 V 4000 mAh rechargeable lithium polymer battery (6000 mAh battery optional)
Audio	Built-in microphone
Notification	Vibrator alerts/LED/Audio notification
Vibration Motor	Built-in programmable vibration motor
Sensor	Built-in G-sensor

● **Operating Environment**

Development Tools	Android SDK + JDK + Eclipse
Programming Language	Java, C
Management Tools	iData tools
Operating Temp.	-10℃ to 50℃
Storage Temp.	-20℃ to 60℃
Relative Humidity	0 to 95% (non-condensing)

Drop Specification	1.5-meter drops to concrete ground
Tumble Specification	500 0.5-m tumbles (1000 hits)
Sealing	IP65
Electrostatic Discharge	Conforms to ± 15 kV air discharge, ± 8 kV direct discharge

● **Structural Parameters**

Dimensions (LxWxD)	152 mm x 68 mm x 24 mm
Weight	255 g (standard battery included)

● **Communication Transmission**

Wireless Voice Communication	3G: WCDMA 850/2100MHz
	2G: GSM 850/900/1800/1900MHz
Wireless WAN	WCDMA/ GPRS/ HSPA+
Wireless LAN	Wi-Fi 802.11b/g/n
GPS	High performance GPS navigation chip

● **Input/Output Ports**

USB Port	1 (Micro USB port)
Charger Port	1(Charging interface at the bottom)
Headset Port	1
Serial Port	1(TTL)

● **1D Laser Scanner**

Optical Resolution	≥ 4 mil
Scan Depth of Field	3.81 cm - 60.98 cm
Scan Angle	47°± 3° (Standard)
Scan Speed	102 ± 12 scans/sec. (Bidirectional)

● **1D Linear Imager**

Reading Mode	CCD
Reading Accuracy	≥ 4 mil
Decoding Speed	300 times/sec. (Max.)

● **2D Area Imager**

Optical Resolution	≥ 3 mil
Scan Angle	Omnidirectional
Scan Speed	300 scans/sec.

● **Infrared Communication Module**

Built-in Infrared Communication Module	Structure with two emitting tubes, meter reading distance of up to 5 meters, fully supporting DL/T645 protocol and communication protocols of worldwide mainstream meter manufacturers
Interface	Initial rate: 1200 bps, supported rates: 1200, 2400, 4800, and 9600 bps

● **RFID**

Frequency	13.56 MHz
Reading Distance	Within 50 mm
Protocol	ISO14443A/14443B/15693
NFC	Optional

● **Accessories**

Standard	Battery, Bottom charging cable , Hand strap
Optional	1-slot charging & communication stand, 4-slot battery charger, Silicon Case, Smart pen

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FCC Caution.

§ 15.19 Labelling requirements.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

§ 15.21 Information to user.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.105 Information to the user.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

Specific Absorption Rate (SAR) information:

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This New Mobile Computermeets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

FCC RF Exposure Information and Statement The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types: iData 95W (FCC ID: 2ADE3IDATA95W) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use at the ear is 0.28W/kg and when properly worn on the body is 0.68W/kg. This device was tested for typical body-worn operations with the back of the handset kept 1.0cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.0cm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

Body-worn Operation
This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 1.0 cm must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.