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**UHF All-In-One Reader**

**Specification**

Product Model：CJ2503A

Date： 2016/07/24

Version Code： V1.0.0

**1. Product Feature**

* Using Impinj R2000 RF Platform
* IP66 protection, adapt to work outside all weather
* CPU:ARM9 platform, basic frequency is 400MHz
* Support ISO18000-6B/6C dual protocol
* Built-in Linux 2.6 operating system, support customer’s customized and extendable development
* Support variety of communication interfaces, like RJ-45/RS-232/RS-485/Wiegand etc
* Built-in 9dBi circular polarization antenna
* Support one external antenna to achieve one driving two devices set up



**2. Product Introduction**

CJ2503A is a high-performance UHF One-Piece Reader which integrated antenna and reader, and support ISO18000-6C/6B protocols. Its working frequency covers national standard dual frequency: 920MHz-925MHz, 840MHz-845MHz, FCC:902MHz-928MHz,ETSI:865MHz-868 MHz, and JP:916MHz-920MHz. Its output power is 0dBm-33dBm, and it has many good features, like long distance identification, fast speed, strong multi-label identification, strong anti-interference, high level protection and easy installing.

**3. Typical Applications**

* Intelligent vehicle management, like vehicle access control, ETC, Customs Clearance, Parking, Automatic Car Weighing Industry etc
* Automatic manufacturing, visual management etc
* Logistics Industry, like container management, pallet management
* Electronic Ticket, Card sender and Person Access control
* Asset warehousing management

**4. Main Technical Specification**

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| **Physical Data** |  |
| Size | 290mm×290mm×115mm |
| Weight | About 2.5kg(Not including accessory) |
| Shell material | Alloy+PC |
| Power | DC 24V/2.5A |
| Working Power consumption | 20W(Output Power 30dBm) |
| **UHF RFID**  |  |
| Protocol | ISO18000-6B/6C |
| Frequency | GB :920**～**925MHz,840MHz～845MHzFCC: 902～928MHzETSI: 865～868MHzJP :916～920MHz （Optional） |
| Output Power | 0**～**33dBm(adjustable by software) |
| Power Regulation | 1dB Step  |
| Spectrum bandwidth | ＜200kHz  |
| Spectrum Stability  | ≤±10ppm  |
| External Interface | RJ-45，RS232，RS485, Wiegand |
| Operating Mode | Fixed Frequency or Frequency hopping mode |
| RJ-45 communication rate | 10M/100M self-adaptive |
| RS-232 interface | Baud Rate 115200bps(Default) |
| I/O | 2 relay output/ 2 optical coupler input |
| Reading speed | >400 time/s |
| Antenna | Built-in 9dBi circular polarization antenna, and support on external antenna |
| Reading distance | 0**～**10m (According to the label performance and using environment) |
| Writing distance | 0**～**5m (According to the label performance and using environment) |
| **Working Environment** |  |
| Working temperature | -30**～**+70°C  |
| Storage temperature | -40**～**+85°C |
| Humidity | 10%**～**95% RH Without condensation |
| **Support** |  |
| Document | Demo，API，Developing guide |