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# 产品宣传画册

Product Brochure

以创造世界一流产品为奋斗目标,积极推动事业向多元化和全球化发展,  
助力物联网!

To create world-class products as the goal of struggle, actively promote the cause of diversification and globalization, and help the Internet of Things!

仓储方案：<https://www.qyswf.com> 资料下载：<https://www.ltznkj.cn>

Storage scheme: <https://www.qyswf.com> download: <https://www.ltznkj.cn>



# 公司简介

深圳市灵天科技有限公司自2015年成立以来一直从事RFID一体化解决方案，公司组织架构:项目部、业务部、运营部、技术部、生产部。项目部软件团队更加有8年以上RFID行业管理经验，我们所涉及的行业有:批发、零售、工业、制造业、汽车配件、电商、轮胎厂、物流、服务等其他行业。另外我们的子公司惠州市灵天智能科技有限公司从事读写器设备、电子标签以及相关周边配件生产和销售，我们的模式:自产自销自用!我们一直致力提供为客户量身定做适合自身的服务及解决方案，为客户带来更多的价值和成功，共同成长、双赢！

## COMPANY PROFILE

Shenzhen Lingtian Technology Co., Ltd. has been engaged in the integration of RFID solutions since its establishment in 2015. Its organizational structure includes project department, business department, operation department, technology department and production department. The software team of the project department has more than 8 years of management experience in the RFID industry. The industries we cover include wholesale, retail, industry, manufacturing, automobile accessories, e-commerce, tire factory, logistics, service and other industries. In addition, our subsidiary company Huizhou Lingtian Intelligent Technology Co., Ltd. is engaged in the production and sales of reader equipment, electronic tags and related peripheral accessories. Our mode is self-production, self-marketing and self-use. We have been committed to providing tailor-made services and solutions for customers, bringing more value and success to customers, growing together and win-win.

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# LT-ZM2R/ZM3R RFID超高频标签打印机



## 产品参数 Product characteristics

|                                  |   |          |
|----------------------------------|---|----------|
| 打印方式<br>Label size               | 热转印   |          |
| 分辨率<br>Texture of material       | 203DPI(8点/mm)   |          |
| 最大打印速度<br>Protection level       | 8IPS(203.2mm/S)   |          |
| 最大打印宽度<br>working temperature    | 4.25"(108 mm)   |          |
| 最大打印长度<br>Vibration              | 157.5" ( 4000mm)  |          |
| 内存<br>Mechanical impact          | 8MBFIashROM,16 MB SDRAM   |          |
| 标签卷尺寸<br>Mechanical stability    | 宽度:最大4.6"(118mm),最小0.8"20mm) 外径 : 最大5"(127 mm) 内径 : 最小1"(25.4 mm<br>Width: maximum 4.6 (118mm), minimum 0.8 20mm outer diameter: maximum 5 (127 mm) inner diameter: minimum 1 (25.4 mm) |          |
| 标签厚度<br>Isostatic water pressure | 0.06 ~ 1mm (0.002" ~ 0.04") , 包括底纸厚度<br>0.06-1 mm (0.002-0.04), including the thickness of base paper   |          |
| 纸张探测方式<br>Washing cycle          | 可移动的反射式和固定穿透式<br>Movable Reflective and Fixed Penetrating Types   | >10years |
| RFID功能<br>Industry application   | 集成高性能RFID读写器/编码器 , 支持与UHF EPC Gen 2/ISO 18000-6C兼容的标签<br>Integrated high performance RFID reader/encoder to support UHF EPC Gen 2/ISO 18000-6C compatible Tags                          |          |
| 条码<br>Industry application       | Code 39 , Code 93 , Code 128 , Codabar , EAN-8/13/128 , Interleave 2 of 5 , UCC-128 , UPC A/E<br>2 and 5 add-on等一维条码 ; Data Matrix , MaxiCode , PDF417 , QR等二维条码                        |          |
| 接口<br>Industry application       | RS-232 串口 , USB接口太网口(选配)<br>RS-232 Serial Port, USB Port, Ethernet Port (Optional)  |          |
| 电源适配器<br>Industry application    | 输入:交流100~240V,50/60Hz,输出:直流24V,25A<br>Input: AC 100-240V, 50/60Hz, output: DC 24V, 25A  |          |
| 重量<br>Industry application       | 2.62 KGS  |          |
| 机身尺寸<br>Industry application     | 宽208 x 长310 x 高195 mm<br>Width 208 x long 310 x high 195 mm   |          |
| 工作环境<br>Industry application     | 温度:0°C~40°C(32°F~+104°F)相对湿度:5%~85%无凝露<br>Temperature: 0 C~40 C (32 F +104 F) Relative humidity: 5%~85% without condensation  |          |
| 存储环境<br>Industry application     | 温度 : -40°C ~ 60°C (-40°F ~ +140°F) 相对湿度:5%~85%无凝露<br>Temperature: - 40 C ~ 60 C (- 40 F +140 F) Relative humidity: 5%~85% without condensation  |          |
| 可选附件<br>Industry application     | 有线网卡、无线(Wifi)网卡、剥离器<br>Cable network card, wireless (Wifi) network card, stripper   |          |

## 产品介绍

RFID超高频打印机基于物联网的RFID技术用途十分广泛，RFID打印机可进行表面打印或EPC/用户区写数据,还可用于防伪安全、交通、食品、图书、动物、农业、电力管理、电子支付、环境监测、智能家居、益民服务、公共卫生、绿色生态等多个领域。

## Product introduction

RFID UHF printer based on Internet of Things has a wide range of applications. RFID printer can print surface or write data in EPC/user area. It can also be used in anti-counterfeiting security, transportation, food, books, animals, agriculture, power management electronic payment, environmental monitoring, smart home, people-friendly services, public health, green ecology and other fields.



# LT-DS322 超高频一体机读写器



## 产品特点 Product characteristics

- 完全自主知识产权设计  
Fully Independent Intellectual Property Design
- 充分支持符合UHF EPC Gen2(ISO18000-6C)、ISO18000-6B协议电子标签  
Fully support electronic tags conforming to UHF EPC Gen2 (ISO18000-6C) and ISO18000-6B protocols
- 先进的标签碰撞处理算法，高识读率  
Advanced Label Collision Processing Algorithms, High Readability
- 工作频率902 ~ 928MHz(可以按不同国家或地区要求调整)  
Working frequency 902-928 MHz (can be adjusted according to the requirements of different countries or regions)
- 以广谱跳频(FHSS)或定频发射方式工作  
Working in Broadband Frequency Hopping (FHSS) or Fixed Frequency Transmitting
- 输出功率: 最大10dBm ( 可调 )  
Output power: maximum 10dBm (adjustable)
- 内建收发天线，读取距离>180mm，写入距离>80mm  
Built-in transceiver antenna, reading distance > 180 mm, writing distance > 80 mm
- USB接口取电，无需外接电源  
USB interface power, no external power supply
- 支持USB1.1接口，虚拟串口工作方式、USB无驱方式  
Supporting USB 1.1 interface, virtual serial port working mode, USB drive-free mode  
及USB无驱仿真键盘方式可选  
and USB drive-free simulation keyboard mode are optional.
- 仿真键盘方式下的输出格式和参数可定制  
The output format and parameters of simulation keyboard can be customized
- 纤薄外形设计  
Slim Shape Design
- 提供动态连接库 ( DLL )，支持二次开发  
Provide Dynamic Link Library (DLL) to support secondary development

## 产品介绍

这是一款高性能的UHF频段ISO18000-6C ( EPC C1G2 )、ISO18000-6B多协议电子标签读写器，完全自主知识产权设计，结合专有的高效电子标签碰撞处理算法，在保持高识读率的同时，实现对电子标签的快速读写处理，可广泛应用于物流、个人身份识别、智能停车场、门禁系统、防伪系统及生产过程控制等多种无线射频识别 ( RFID ) 系统。

## Product introduction

This is a high-performance UHF band ISO18000-6C (EPC C1G2), ISO18000-6B multi-protocol electronic tag reader, fully independent intellectual property rights design, combined with the proprietary high-efficiency electronic tag collision processing algorithm, while maintaining high reading rate, to achieve rapid reading and writing of electronic tags, can be widely used in logistics, personal identification, intelligent parking lot, access control system. Radio Frequency Identification (RFID) systems, such as anti-counterfeiting system and production process control, etc.

## 产品参数 Product characteristics

### 极限参数 Limit parameter

| 项目 project               | 符号 Symbol        | 数值 numerical value | 单位 Company |
|--------------------------|------------------|--------------------|------------|
| 电源电压 supply voltage      | VCC              | 16                 | V          |
| 工作温度 working temperature | T <sub>OPR</sub> | -10~+60            | °C         |
| 贮藏温度 Storage temperature | T <sub>STR</sub> | -25~+80            | °C         |

### 规格 Specifications

除特别说明，所示规格取自TA = 25°C及VCC = +5V工作条件下  
In addition to special instructions, the specifications shown are taken from TA=25 C and VCC=+5V working conditions.

| 项目 project           | 符号 Symbol        | 最小 Minimum | 典型 typical | 最大 Maximum | 单位 Company    |
|----------------------|------------------|------------|------------|------------|---------------|
| 电源电压 supply voltage  | VCC              | 4.5        | 5          | 5.5        | V             |
| 工作电流 working current | I <sub>C</sub>   |            | 90         | 150        | mA            |
| 工作电流 storage current | F <sub>REQ</sub> | 902        |            | 928        | MHz           |
| 工作电流 working current | DIS              | 0          | 120        | 180        | REAL ESTATE m |

## 产品特点 Product characteristics

- 支持符合 ISO-18000-6C ( EPC G2 ) 标准的电子标签  
Supporting Electronic Labels Complying with ISO-18000-6C (EPC G2) Standards
- 工作频率 865 ~ 928MHz  
Working frequency 865-928 MHz
- 以广谱跳频(FHSS)或定频发射方式工作  
Working in Broadband Frequency Hopping (FHSS) or Fixed Frequency Transmitting
- 输出功率达至 26dBm ( 可调 )  
Output power up to 26 dBm (adjustable)
- 识别距离稳定 8 米  
Recognition distance is stable 8 meters
- 低功耗设计 , +9V 电源供电  
Low Power Design, +9V Power Supply
- 产品接口 USB、网口、串口  
Product Interface USB, Network Port, Serial Port
- 读卡速度单卡平均读取时每 64bits 小于 6ms  
The average reading speed of a single card is less than 6 ms per 64 bits.
- 蜂鸣器提示  
Beeper On
- 内置 10dBi 圆极化天线  
Built-in 10dBi circularly polarized antenna
- 提供动态连接库 ( DLL ) 及演示软件源代码 , 支持二次开发  
Provide dynamic link library (DLL) and demo software source code to support secondary development
- 外形尺寸 420\*240\*30mm  
Shape size 420\*240\*30mm
- 稳定性高 , 室温下长期连续满负荷工作不发热  
High stability, long-term continuous full-load operation at room temperature without fever
- 重量 1.95 Kg  
Weight 1.95 Kg
- 工作温度 -20°C ~ +80°C  
Working temperature -20 +80.
- 可连续 24 小时 ×365 天工作  
It can work 24 hours x 365 days continuously.



## LT-DS302 超高频一体机读写器



## 产品介绍

LT-DS302 是一款高性能的超高频 RFID 读写器，完全自主知识产权设计，基于高集成度的 RFID 引擎 ASIC 设计，结合专有的高效处理算法，在保持高识读率的同时，实现对电子标签的快速读写处理，可广泛应用于个人身份识别、会议签到系统、门禁系统、防伪及生产过程控制等多种无线射频识别 (RFID) 应用系统。

## Application area

LT-DS302 is a high-performance UHF RFID reader and writer. It is fully independent of intellectual property rights. Based on the highly integrated design of the RFID engine ASIC and the proprietary efficient processing algorithm, it can achieve fast reading and writing of electronic tags while maintaining high reading rate. It can be widely used in personal identification, conference check-in system, access control system, anti-counterfeiting and production process. Control and other radio frequency identification (RFID) applications.

# LT-DS309 超高频一体机读写器



## 产品特点 Product characteristics

- 支持符合 ISO-18000-6C ( EPC G2 ) 标准的电子标签  
Supporting Electronic Labels Complying with ISO-18000-6C (EPC G2) Standards
- 工作频率 902-828MHz、865-867MHz  
Working frequency 865-928 MHz
- 以广谱跳频(FHSS)或定频发射方式工作  
Working in Broadband Frequency Hopping (FHSS) or Fixed Frequency Transmitting
- 输出功率达至 26dBm ( 可调 )  
Output power up to 26 dBm (adjustable)
- 9dbi天线配置，识别距离6-8米  
Recognition distance is stable 8 meters
- 支持自动方式、应答方式、触发方式等工作模式  
Low Power Design, +9V Power Supply
- 低功耗设计，+9V电源供电  
Product Interface USB, Network Port, Serial Port
- 支持RS232、RJ45、USB接口  
The average reading speed of a single card is less than 6 ms per 64 bits.
- 读卡速度单卡平均读取时每64bits小于6ms  
Beeper On
- 读卡蜂鸣器提示  
Built-in 10dBi circularly polarized antenna
- 内置9dbi圆极化天线  
Provide dynamic link library (DLL) and demo software source code to support secondary development
- 提供动态链接库(DLL)及演示软件源代码，支持二次开发  
Shape size 420\*240\*30mm
- 外形尺寸260mm\*260mm\*75mm  
High stability, long-term continuous full-load operation at room temperature without fever
- 重量 1.4 Kg  
Weight 1.95 Kg
- 工作温度 - 20°C-- + 80°C  
Working temperature-20 +80.

## 产品介绍

LT-DS328是一款高性能的超高频 RFID 读写器，完全自主知识产权设计，基于高集成度的 RFID 引擎 ASIC 设计，结合专有的高效处理算法，在保持高识读率的同时，实现对电子标签的快速读写处理，可广泛应用于个人身份识别、会议签到系统、门禁系统、防伪及生产过程控制等多种无线射频识别 (RFID) 应用系统。

## Application area

LT-DS328 is a high-performance UHF RFID reader and writer. It is fully independent of intellectual property rights. Based on the highly integrated design of the RFID engine ASIC and the proprietary efficient processing algorithm, it can achieve fast reading and writing of electronic tags while maintaining high reading rate. It can be widely used in personal identification, conference check-in system, access control system, anti-counterfeiting and production process. Control and other radio frequency identification (RFID) applications.



## 产品特点 Product characteristics

- 支持符合 ISO-18000-6C ( EPC G2 ) 标准的电子标签  
Supporting Electronic Labels Complying with ISO-18000-6C (EPC G2) Standards
- 工作频率 865 ~ 928MHz  
Working frequency 865-928 MHZ
- 以广谱跳频(FHSS)或定频发射方式工作  
Working in Broadband Frequency Hopping (FHSS) or Fixed Frequency Transmitting
- 输出功率达至 26dBm ( 可调 )  
Output power up to 26 dBm (adjustable)
- 识别距离稳定 8 米  
Recognition distance is stable 8 meters
- 低功耗设计 , +9V 电源供电  
Low Power Design, +9V Power Supply
- 产品接口 USB、网口、串口  
Product Interface USB, Network Port, Serial Port
- 读卡速度单卡平均读取时每 64bits 小于 6ms  
The average reading speed of a single card is less than 6 ms per 64 bits.
- 蜂鸣器提示  
Beeper On
- 内置 10dBi 圆极化天线  
Built-in 10dBi circularly polarized antenna
- 提供动态连接库 ( DLL ) 及演示软件源代码 , 支持二次开发  
Provide dynamic link library (DLL) and demo software source code to support secondary development
- 外形尺寸 420\*240\*30mm  
Shape size 420\*240\*30mm
- 稳定性高 , 室温下长期连续满负荷工作不发热  
High stability, long-term continuous full-load operation at room temperature without fever
- 重量 1.95 Kg  
Weight 1.95 Kg
- 工作温度 -20°C ~ +80°C  
Working temperature-20 +80.
- 可连续 24 小时×365 天工作  
It can work 24 hours x 365 days continuously.



# LT-DS310 超高频一体机读写器



## 产品介绍

LT-DS310 是一款高性能的超高频 RFID 读写器，完全自主知识产权设计，基于高集成度的 RFID 引擎 ASIC 设计，结合专有的高效处理算法，在保持高识读率的同时，实现对电子标签的快速读写处理，可广泛应用于个人身份识别、会议签到系统、门禁系统、防伪及生产过程控制等多种无线射频识别 (RFID) 应用系统。

## Application area

LT-DS310 is a high-performance UHF RFID reader and writer. It is fully independent of intellectual property rights. Based on the highly integrated design of the RFID engine ASIC and the proprietary efficient processing algorithm, it can achieve fast reading and writing of electronic tags while maintaining high reading rate. It can be widely used in personal identification, conference check-in system, access control system, anti-counterfeiting and production process. Control and other radio frequency identification (RFID) applications.

# LT-DS312 超高频一体机读写器



## 产品特点 Product characteristics

- 支持符合ISO18000-6C、EPC CLASS1 G2标准的电子标签  
Supporting Electronic Labels Complying with ISO18000-6C and EPC CLASS1 G2 Standards
- 工作频率902 ~ 928MHz、865 ~ 867MHz  
Working frequency 902-928 MHz, 865-867 MHz
- 以广谱跳频(FHSS)或定频发射方式工作  
Working in Broadband Frequency Hopping (FHSS) or Fixed Frequency Transmitting
- 输出功率达至26dBm ( 可调 )  
Output power up to 30 dBm (adjustable)
- 识别距离稳定10米以上 ( 与标签有关 )  
Recognition distance is more than 10 meters stable (related to label)
- 低功耗设计 , +9V电源供电  
Low Power Design, +9V Power Supply
- 支持USB、RS232、RJ45,每64bits小于6ms  
Support USB, RS232, RJ45, less than 6 ms per 64 bits
- 读卡蜂鸣器提示 , 可选配带LED灯  
Read the card buzzer prompt, optional with LED lights
- 内置12dBi圆极化天线 , 可选水平极化、垂直极化天线  
Built-in 12dBi circularly polarized antenna, horizontally polarized and vertically polarized antenna can be selected
- 提供动态连接库 ( DLL ) 及演示软件源代码 , 支持二次开发  
Provide dynamic link library (DLL) and demo software source code to support secondary development
- 外形尺寸450mm×450mm×70mm  
Shape size 450 mm x 450 mm x 70 mm
- 重量2.5 Kg  
Weight 2.5 Kg
- 工作温度 - 20°C ~ + 80°C  
Working temperature -20 +80.

## 产品介绍

LT-DS325是一款高性能的UHF超高频读写一体机,具有多协议兼容、读取速率快、防水型外观设计,满足苛刻工作环境要求,全面支持符合ISO-18000-6C ( EPC G2 )、ISO-1800-6B电子标签;可稳定读取12m以上(与标签及环境相关)。结合专有的高效信号处理算法,在持高识读率的同时,实现对电子标签的快速读写处理,可广泛应用于物流、车辆管理、门禁系统、防伪系统及生产过程控制等多种无线射频识别 ( RFID ) 系统。

## Product introduction

LT-DS325 is a high-performance UHF read-write integrated machine with multi-protocol compatibility, fast reading rate, waterproof appearance design, meeting the harsh working environment requirements, fully supporting ISO-18000-6C (EPC G2), ISO-1800-6B electronic tags; stable reading more than 12m (related to tags and environment). Combining with the proprietary high-efficiency signal processing algorithm, it can achieve fast reading and writing of electronic tags while maintaining high reading rate. It can be widely used in many kinds of radio frequency identification (RFID) systems, such as logistics, vehicle management, access control system, anti-counterfeiting system and production process control.



# LT-DS814 超高频四通道读写器



## 产品介绍

这是一款高性能的UHF超高频电子标签读写器，完全自主知识产权设计，结合专有的高效信号处理算法，在保持高识读率的同时，实现对电子标签的快速读写处理，可广泛应用于物流、门禁系统、防伪系统及生产过程控制等多种无线射频识别（RFID）系统。

## Product introduction

This is a high-performance UHF tag reader and writer. It is fully independent of intellectual property rights design. It combines with proprietary high-efficiency signal processing algorithm to achieve fast reading and writing of electronic tags while maintaining high reading rate. It can be widely used in logistics, access control system, anti-counterfeiting system and production process control and other radio frequency identification (RFID) systems.



## 产品特点 Product characteristics

- 完全自主知识产权设计  
Fully Independent Intellectual Property Design
- 工作频率840~960MHz ( 可以按不同国家或地区要求调整 )  
Working frequency 902~928 MHz, 865~867 MHz
- 基于Impinj R2000读写引擎设计，充分支持符合EPC CLASS1 G2、ISO18000-6B标准的电子标签  
Based on Impinj R2000 read and write engine design, fully support EPC CLASS1 G2, ISO18000-6B standard Electronic label of ISO18000-6B standard
- 以广谱跳频 ( FHSS ) 或定频发射方式工作，支持RSSI功能，峰值标签  
Work in FHSS or fixed frequency transmission mode, support RSSI function, peak label
- 巡查速度大于700张/秒  
Inspection speed greater than 700 sheets per second
- 输出功率达至33dBm ( 可调 )  
Output power up to 33dBm (adjustable)
- 支持4个外接TNC天线接口，支持天线自动微调谐和天线检测  
Supports four external TNC antenna interfaces, automatic fine tuning of antenna and antenna detection
- 支持应答工作模式和实时巡查工作模式  
Support Response Mode and Real-time Patrol Mode
- 标签缓存容量：1000张@最长96bitsEPC  
Label cache capacity: 1000 @ 96 bits EPC
- 支持EPC和TID两种防冲突模式  
Supporting EPC and TID Anti-Conflict Models
- 低功耗设计，单 + 9V电源供电，可选配POE供电方式  
Low power design, single + 9V power supply, optional POE power supply mode
- 支持RS232、USB ( Slave )、可选配RJ45 ( TCP/IP ) 等多种通讯接口  
Support RS232, USB (Slave), optional RJ45 (TCP/IP) and other communication interfaces
- 提供动态连接库 ( DLL ) 及演示软件源代码，支持二次开发  
Provide dynamic link library (DLL) and demo software source code to support secondary development
- 精致小巧设计，满足多种应用场合需求  
Delicate and compact design to meet the needs of a variety of applications

## 产品参数 Product characteristics

### 极限参数 Limit parameter

| 项目 project               | 符号 symbol        | 数值 numerical value | 单位 Company |
|--------------------------|------------------|--------------------|------------|
| 电源电压 supply voltage      | VCC              | 16                 | V          |
| 工作温度 working temperature | T <sub>OPR</sub> | -20~+55            | °C         |
| 贮藏温度 Storage temperature | T <sub>STR</sub> | -20~+85            | °C         |

### 规格 Specifications

除特别说明，所示规格取自TA=25°C及VCC=+5V工作条件下  
In addition to special instructions, the specifications shown are taken from TA=25 C and VCC=+5V working conditions.

| 项目 project             | 符号 symbol        | 最小 Minimum | 典型 typical         | 最大 Maximum    | 单位 Company |
|------------------------|------------------|------------|--------------------|---------------|------------|
| 电源电压 supply voltage    | VCC              | 8          | 9                  | 12            | V          |
| 工作电流 working current   | I <sub>C</sub>   |            | 0.5                | 1.2           | mA         |
| 工作频率 Storage frequency | F <sub>REQ</sub> | 840        | 860~868<br>902~928 | 960           | MHz        |
| 尺寸 size                | L x W x H        |            | 268 x 181 x 28     | REAL ESTATE m |            |

## 产品特点 Product characteristics

- 完全自主知识产权设计  
Fully Independent Intellectual Property Design
- 工作频率840~960MHz ( 可以按不同国家或地区要求调整 )  
Working frequency 902~928 MHz, 865~867 MHz
- 基于Impinj R2000读写引擎设计 , 充分支持符合EPC CLASS1 G2、  
Based on Impinj R2000 read and write engine design, fully support EPC CLASS1 G2,
- ISO18000-6B标准的电子标签  
Electronic label of ISO18000-6B standard
- 以广谱跳频 ( FHSS ) 或定频发射方式工作 , 支持RSSI功能 , 峰值标签  
Work in FHSS or fixed frequency transmission mode, support RSSI function, peak label
- 巡查速度大于700张/秒  
Inspection speed greater than 700 sheets per second
- 输出功率达至33dBm ( 可调 )  
Output power up to 33dBm (adjustable)
- 支持8个外接TNC天线接口 , 支持天线检测  
Support 8 external TNC antenna interfaces, support antenna detection
- 支持应答工作模式和实时巡查工作模式  
Support Response Mode and Real-time Patrol Mode
- 标签缓存容量 : 1000张@最长96bitsEPC  
Label cache capacity: 1000 @ 96 bits EPC
- 支持EPC和TID两种防冲突模式  
Supporting EPC and TID Anti-Conflict Models
- 低功耗设计 , 单 + 9V电源供电 , 可选配POE供电方式  
Low power design, single + 9V power supply, optional POE power supply mode
- 支持RS232、USB ( Slave ) 、可选配RJ45 ( TCP/IP ) 等多种通讯接口  
Support RS232, USB (Slave), optional RJ45 (TCP/IP) and other communication interfaces
- 提供动态连接库 ( DLL ) 及演示软件源代码 , 支持二次开发  
Provide dynamic link library (DLL) and demo software source code to support secondary development
- 精致小巧设计 , 满足多种应用场合需求  
Delicate and compact design to meet the needs of a variety of applications

## 产品参数 Product characteristics

### 极限参数 Limit parameter

| 项目project               | 符号Symbol         | 数值numerical value | 单位Company |
|-------------------------|------------------|-------------------|-----------|
| 电源电压supply voltage      | VCC              | 16                | V         |
| 工作温度working temperature | T <sub>OPR</sub> | -20~+55           | °C        |
| 贮藏温度Storage temperature | T <sub>STR</sub> | -20~+85           | °C        |

### 规格 Specifications

除特别说明 , 所示规格取自TA=25°C及VCC=+5V工作条件下  
In addition to special instructions, the specifications shown are taken from TA=25 C and VCC=+5V working conditions.

| 项目project               | 符号Symbol         | 最小Minimum | 典型typical          | 最大Maximum | 单位Company |
|-------------------------|------------------|-----------|--------------------|-----------|-----------|
| 电源电压supply voltage      | VCC              | 8         | 9                  | 12        | V         |
| 工作电流working temperature | I <sub>C</sub>   |           | 0.5                | 1.2       | mA        |
| 工作频率Storage temperature | F <sub>REQ</sub> | 840       | 860~868<br>902~928 | 960       | MHZ       |
| 尺寸size                  | L x W x H        |           | 268 x 181 x 28     |           | mm        |

# LT-DS818 超高频八通道读写器



## 产品介绍

这是一款高性能的UHF超高频电子标签读写器 , 完全自主知识产权设计 , 结合专有的高效信号处理算法 , 在保持高识读率的同时 , 实现对电子标签的快速读写处理 , 可广泛应用于物流、门禁系统、防伪系统及生产过程控制等多种无线射频识别 ( RFID ) 系统。

## Application area

This is a high-performance UHF tag reader and writer. It is fully independent of intellectual property rights design. It combines with proprietary high-efficiency signal processing algorithm to achieve fast reading and writing of electronic tags while maintaining high reading rate. It can be widely used in logistics, access control system, anti-counterfeiting system and production process control and other radio frequency identification (RFID) systems.



# LT-DS8112 超高频一体机读写器



## 产品介绍

这是一款高性能的超高频电子标签固定式读写器，完全自主知识产权设计，结合专有的高效信号处理算法，在保持高识别率的同时，实现对电子标签的快速读写处理，可广泛应用于物流、门禁系统、防伪系统及生产过程控制等多种无线射频识别（RFID）系统。

## Product introduction

This is a high-performance fixed reader for UHF tags. It is fully independent of intellectual property rights. It combines with proprietary high-efficiency signal processing algorithm to achieve fast reading and writing of electronic tags while maintaining high recognition rate. It can be widely used in logistics, access control system, anti-counterfeiting system and production process control and other radio frequency identification (RFID) systems.



## 产品特点 Product characteristics

- 完全自主知识产权设计  
Fully Independent Intellectual Property Design
- 基于Impinj R2000读写引擎设计  
Working frequency 902~928 MHz, 865~867 MHz
- 充分支持符合EPC CLASS1 G2、ISO18000-6B标准的电子标签  
Based on Impinj R2000 read and write engine design, fully support EPC CLASS1 G2,
- 工作频率860~868MHz/902~928MHz(可以按不同国家或地区要求调整)  
Electronic label of ISO18000-6B standard
- 以广谱跳频(FHSS)或定频发射方式工作  
Work in FHSS or fixed frequency transmission mode, support RSSI function, peak label
- 输出功率达至30dBm ( 可调 )  
Inspection speed greater than 700 sheets per second
- 12个外接SMA天线接口，支持天线自动微调谐和天线失效检测  
Output power up to 33dBm (adjustable)
- 支持主动、应答、触发、实时巡查等多种工作模式  
Supports four external TNC antenna interfaces, automatic fine tuning of antenna and antenna detection
- 支持内部800张标签 ( 最大EPC长度496bits ) 缓存  
Support Response Mode and Real-time Patrol Mode
- 支持EPC和TID两种防冲突模式  
Label cache capacity: 1000 @ 96 bits EPC
- 低功耗设计，单 + 9V电源供电  
Supporting EPC and TID Anti-Conflict Models
- 支持RS232、RJ45 ( TCP/IP ) 等多种通讯接口，可选配POE网络供电  
Low power design, single + 9V power supply, optional POE power supply mode
- 高可靠设计，满足严苛工作环境要求  
Support RS232, USB (Slave), optional RJ45 (TCP/IP) and other communication interfaces
- 支持Firmware在线升级  
Provide dynamic link library (DLL) and demo software source code to support secondary development

## 产品参数 Product characteristics

### 极限参数 Limit parameter

| 项目project               | 符号Symbol         | 数值numerical value | 单位Company |
|-------------------------|------------------|-------------------|-----------|
| 电源电压supply voltage      | VCC              | 16                | V         |
| 工作温度working temperature | T <sub>OPR</sub> | -20~+55           | °C        |
| 贮藏温度Storage temperature | T <sub>STR</sub> | -20~+85           | °C        |

### 规格 Specifications

除特别说明，所示规格取自TA=25°C及VCC=+5V工作条件下  
In addition to special instructions, the specifications shown are taken from TA=25 C and VCC=+5V working conditions.

| 项目project               | 符号Symbol         | 最小Minimum | 典型typical          | 最大Maximum | 单位Company |
|-------------------------|------------------|-----------|--------------------|-----------|-----------|
| 电源电压supply voltage      | VCC              | 8         | 9                  | 12        | V         |
| 工作电流working temperature | I <sub>C</sub>   |           | 0.5                | 1.2       | mA        |
| 工作频率Storage temperature | F <sub>REQ</sub> | 840       | 860~868<br>902~928 | 960       | MHZ       |
| 尺寸size                  | L x W x H        |           | 268 x 181 x 28     |           | mm        |

# LT-DS716 超高频一体机读写器

## 产品特点 Product characteristics

- 工作频段 840 ~ 960MHz  
Working band 840-960MHz
  - 支持协议 EPCglobal UHF Class 1 Gen 2/ISO 18000-6C  
EPCglobal UHF Class 1 Gen 2/ISO 18000-6C
  - 实际最大输出功率 30dBm  
Actual maximum output power 30 dBm,
  - 远距离读取 >18m 配 8dBi 天线  
Long-range reading > 18m with 8dBi antenna
  - 多标签读取 >400 张/秒  
Far multi-label read > 400 sheets per second
  - 丰富的通信接口 USB、RS-232、以太网、无线WIFI、韦根等  
Rich communication interface USB, RS-232, Ethernet, wireless WIFI, Wigan, etc.
  - 16 个射频接口 SMA  
16 RF Interfaces SMA
  - 硬件看门狗、网络心跳包  
Hardware Watchdog, Network Heartbeat Packet
  - 提供完整的软件开发资料 DEMO 源码、API 以及帮助文档  
Provide complete software development information DEMO source code, API and
- 和通讯协议文档  
help documentation Communications Protocol Documentation
- 全金属外壳 226.0\*166.0\*32.0mm  
All-metal enclosure 226.0\*166.0\*32.0mm

## 产品参数 Product characteristics

### 极限参数 Limit parameter

| 项目 project               | 符号 Symbol | 数值 numerical value | 单位 Company |
|--------------------------|-----------|--------------------|------------|
| 电源电压 supply voltage      | VCC       | 16                 | V          |
| 工作温度 working temperature | TOPP      | -20~+55            | °C         |
| 贮藏温度 Storage temperature | TSTR      | -20~+85            | °C         |

### 规格 Specifications

除特别说明，所示规格取自TA = 25°C及VCC = +5V工作条件下  
In addition to special instructions, the specifications shown are taken from TA=25 C and VCC=+5V working conditions.

| 项目 project             | 符号 Symbol | 最小 Minimum | 典型 typical         | 最大 Maximum | 单位 Company |
|------------------------|-----------|------------|--------------------|------------|------------|
| 电源电压 supply voltage    | VCC       | 8          | 9                  | 12         | V          |
| 工作电流 working current   | IC        |            | 0.5                | 1.2        | A          |
| 工作频率 Storage frequency | FREQ      | 840        | 860~868<br>902~928 | 960        | MHZ        |
| 尺寸 size                | L x W x H |            | 268 x 181 x 28     |            | mm         |



## 产品介绍

LT-DS716 是一款工业级、高性能、16 通道 UHF RFID 读写设备，采用全金属外壳设计，坚固耐用、散热性能极佳。产品集成了丰富的通信接口，包括 USB、RS-232、以太网、无线 WIFI（选配）等。

LT-DS716 采用了载波消除技术和全新的防冲撞算法，硬件外部看门狗和网络心跳包的应用，电路的防雷、防浪涌设计，使其读写性能卓越、稳定、可靠，具有极强的抗干扰能力，完全可以满足各类环境的使用需求。

## Application area

LT-DS716 is an industrial-grade, high-performance, 16-channel UHF RFID reading and writing equipment. It is designed with all-metal shell, and has excellent durability and heat dissipation performance. The product integrates a wealth of communication interfaces, including USB, RS-232, Ethernet, wireless WIFI (optional) and so on.

LT-DS716 adopts carrier cancellation technology and a new anti-collision algorithm, the application of external watchdog and network heartbeat packet, the lightning protection and surge protection design of circuit, which makes its reading and writing performance excellent, stable and reliable, and has strong anti-interference ability. It can completely meet the needs of various environments.

# LT-C9070 超高频智能手持终端



## 产品介绍

该款设备是最新推出的一款超薄轻便的高拓展智能手持终端。产品采用高性能处理器，四核CPU，配置强劲，运行快速。这款设备可集成条码扫描、高频、超高频读写、NFC读写、指纹识别、虹膜识别、红外、PSAM、高清摄像头、GPS定位等模块和功能，广泛适用于物流，零售，仓储，抄表，一卡通，身份识别，人口普查等。

## Application area

The device is the latest ultra-thin, portable and highly developed Smart Handheld terminal. The product uses high-performance processors, four-core CPU, strong configuration, fast operation. This device can integrate barcode scanning, high frequency, ultra-high frequency reading and writing, NFC reading and writing, fingerprint identification, iris recognition, infrared, PSAM, high-definition camera, GPS positioning modules and functions, widely applicable to logistics, retail, warehousing, meter reading, one-card, identity recognition, census and so on.



## 产品参数 Product characteristics

| 物理参数                             |   |
|----------------------------------|---|
| 整机尺寸<br>Whole machine size       | 164.2*78.8*17mm ( 基本版 )<br>164.2*78.8*17mm (Basic Edition)  |
| 整机重量<br>Weight                   | <288g ( 基本版 ) ( 取决于模块配置 )<br><288g (Basic Edition) (Depending on Module Configuration)  |
| 显示屏<br>Display screen            | 5.2寸, IPS FHD 1920x1080分辨率<br>5.2 inch, IPS FHD 1920x1080 resolution  |
| 触控屏<br>Touch screen              | 康宁大猩猩玻璃，支持多点触控，支持手套或湿手操作<br>Kangning gorilla glass, support multi-touch, glove or wet hand operation  |
| 电池容量<br>Battery capacity         | 可充电锂电池5000mAh<br>Rechargeable lithium polymer battery 5000mAh   |
|                                  | 待机时间>350小时<br>Standby time > 350 hours  |
|                                  | 工作时间>12小时 (取决于使用情况和网络环境)<br>Working hours > 12 hours (depending on usage and network environment)   |
|                                  | 充电时间3-4小时 ( 使用标配电源适配器和数据线 )<br>Charging time 3-4 hours (using standard power adapter and data line)   |
| 扩展卡槽<br>Expansion card slot      | 1个SIM卡槽, 一个卡槽SIM或TF二选一；可选配PSAM卡槽<br>One SIM slot, one SIM slot or TF alternative; optional PSAM slot<br>(至多两个, 支持ISO7816标准)<br>(Up to two, support ISO7816 standard)  |
| 通讯接口<br>Communication Interface  | USB 2.0 Type-, OTG  |
| 音频<br>audio frequency            | 扬声器, 2个麦克风<br>Speaker, 2 microphones  |
| 键盘<br>Keyboard                   | 4个主键盘, 1个电源键, 2个扫描键, 1个多功能键<br>4 main keyboards, 1 power key, 2 scan keys, 1 multi-function key   |
| 传感器<br>Sensor                    | 重力传感器, 光线传感器, 距离传感器<br>Gravity Sensor, Ray Sensor, Distance Sensor  |
| 性能参数                             |   |
| CPU                              | Cortex-A53 1.3GHz 四核<br>Cortex-A53 1.3GHz Quadruple Core  |
| RAM+ROM                          | 2GB+16GB  |
| 拓展内存<br>Expand memory            | Micro SD ( TF ) 卡可扩展至32GB<br>Micro SD (TF) card can be extended to 32GB   |
| 开发环境<br>development environment  | Android 6.0   |
| 操作系统<br>operating system         | Android 6.0   |
| SDK                              | 终端软件开发工具包<br>Terminal Software Development Toolkit  |
| 开发语言<br>development language     | Java  |
| 开发工具<br>development tool         | Eclipse / Android Studio  |
| 使用环境<br>Use environment          |   |
| 工作温度<br>temperature              | -20°C至50°C<br>-20 C to 50 C   |
| 储存温度<br>Storage temperature      | -40°C至70°C<br>-40 C to 70 C   |
| 环境湿度<br>Ambient humidity         | 5%RH - 95%RH ( 无凝结 )<br>5% RH - 95% RH (no condensation)  |
| 跌落规格<br>Drop specification       | 在操作温度范围内, 6面均能承受多次(至少20次)从1.8米高度跌落至混凝土地面的冲击<br>Within the operating temperature range, all six surfaces can withstand multiple times (at least 20 times) from 1.8m impact of metre height falling to concrete floor |
| 滚动测试<br>Rolling test             | 滚动连续1000次0.5米, 6个面接触面滚动后依然稳定运行, 达到IEC滚动规格<br>Rolling continuous 1000 times 0.5 meters, 6 contact surfaces rolling still stable operation OK, up to IEC rolling specifications                                       |
| 防护等级<br>Protection level         | IP67 , 达到 IEC 密封标准<br>Ips7, up to IEC Sealing Standard  |
| 静电防护<br>Electrostatic protection | ±8KV空气放电, ±4KV接触放电<br>Air Discharge (+8KV) and Contact Discharge (+4KV)   |
| 数据通讯<br>Data communication       |   |
| WLAN                             | 支持IEEE802.11 a/b/g/n协议 (2.4G/5G双频); 内置天线<br>Support IEEE802.11a/b/g/n protocol, (2.4G/5G dual frequency); built-in antenna  |
|                                  | 2G: 900/1800MHz   |
| WWAN                             | 3G: 900/1900/2000/2100MHz<br>4G: TDD-LTE: B38, B39, B40, B41 FDD-LTE: B1, B3, B5  |
| 蓝牙<br>Bluetooth                  | Bluetooth 4.0, BLE  |
| GNSS                             | 集成GPS, GLONASS和北斗; 内置天线, 支持AGPS<br>integrates GPS, GLONASS and Beidou; built-in antenna supports AGPS   |

## 产品配件 Product accessories

详见配件指南  
See Accessories Guide for details



# LT-C9072 超高频智能手持终端



## 产品介绍

该款设备是研发升级的一款高性能超高频智能手持终端。其融合了强大的UHF超高频读写功能，具有更出色的灵敏度，有助于实现更精准、更快速的数据采集。采用Android 6.0操作系统，搭载1.3GHz四核处理器，拥有超长的电池续航能力，广泛适用于资产管理、服装盘点、车辆管理、高速收费、仓储管理、金融管理等领域。

## Application area

The device is a high-performance UHF Smart Handheld Terminal developed and upgraded. It combines powerful UHF UHF read-write function, has better sensitivity, and helps to achieve more accurate and faster data acquisition. With Android 6.0 operating system and 1.3GHz quad-core processor, it has super-long battery life. It is widely used in asset management, clothing inventory, vehicle management, high-speed charging, warehousing management, financial management and other fields.



## 产品参数 Product characteristics

|   |   |
|---|---|
| 物理参数<br>Physical parameters   |   |
| 整机尺寸<br>Whole machine size  | 164.2mm x 80.0mm x 24.3mm   |
| 整机重量<br>Weight  | 654g  |
| 显示屏<br>Display screen   | 5.2寸, IPS FHD 1920x1080分辨率<br>5.2 inch, IPS FHD 1920x1080 resolution  |
| 触控屏<br>Touch screen   | 康宁大猩猩玻璃，支持多点触控，支持手套或湿手操作<br>Kangning gorilla glass, support multi-touch, glove or wet hand operation  |
| 电池容量<br>Battery capacity  | 可充电锂聚合物电池8000mAh<br>8 000 mAh rechargeable lithium polymer battery  |
| 待机时间>500小时<br>Standby time > 500 hours  |   |
| 工作时间>12小时 (取决于使用情况和网络环境)<br>Working hours > 12 hours (depending on usage and network environment) |   |
| 充电时间3-4小时 (使用标配电源适配器和数据线)<br>Charging time 3-4 hours (using standard power adapter and data line) |   |
| 扩展卡槽<br>Expansion card slot   | 1个SIM卡槽，一个卡槽SIM或TF二选一<br>One SIM slot, one SIM slot or TF alternative   |
| 通讯接口<br>Communication Interface   | USB 2.0 Type-C, OTG   |
| 音频<br>audio frequency   | 扬声器, 2个麦克风<br>Speaker, 2 microphones  |
| 键盘<br>Keyboard  | 4个主键盘, 1个电源键, 2个扫描键, 1个多功能键<br>4 main keyboards, 1 power key, 2 scan keys, 1 multi-function key   |
| 传感器<br>Sensor   | 重力传感器, 光线传感器, 距离传感器<br>Gravity Sensor, Ray Sensor, Distance Sensor  |
| 性能参数<br>performance parameter   |   |
| CPU   | Cortex-A53 1.3GHz 四核<br>Cortex-A53 1.3GHz Quadruple Core  |
| RAM+ROM   | 2GB+16GB  |
| 拓展内存<br>Expand memory   | Micro SD (TF) 卡可扩展至32GB<br>Micro SD (TF) card can be extended to 32GB   |
| 开发环境<br>development environment   |   |
| 操作系统<br>operating system  | Android 6.0   |
| SDK   | 终端软件开发工具包<br>Terminal Software Development Toolkit  |
| 开发语言<br>development language  | Java  |
| 开发工具<br>development tool  | Eclipse / Android Studio  |
| 使用环境<br>Use environment   |   |
| 工作温度<br>temperature   | -20°C至50°C<br>-20 C to 50 C   |
| 储存温度<br>Storage temperature   | -40°C至70°C<br>-40 C to 70 C   |
| 环境湿度<br>Ambient humidity  | 5%RH - 95%RH (无凝结)<br>5% RH - 95% RH (no condensation)  |
| 跌落规格<br>Drop specification  | 在操作温度范围内, 6面均能承受多次从1.5米高度跌落<br>Within the operating temperature range, all six sides can withstand multiple drops 1.5 m height.Impact concrete floor            |
| 滚动测试<br>Rolling test  | 滚动连续1000次0.5米, 6个面接触面滚动后依然稳定运行, 达到IEC滚动规格<br>Rolling continuous 1000 times 0.5 meters, 6 contact surfaces rolling still stable, reach IEC rolling specification |
| 防护等级<br>Protection level  | 主机IP65, 达到IEC 密封标准<br>host IP65, up to IEC sealing standard   |
| 静电防护<br>Electrostatic protection  | ±8KV空气放电, ±4KV接触放电<br>Air Discharge (+8KV) and Contact Discharge (+4KV)   |
| 数据通讯<br>Data communication  |   |
| WLAN  | 支持IEEE802.11 a/b/g/n协议, (2.4G/5G双频); 内置天线<br>Support IEEE802.11a/b/g/n protocol, (2.4G/5G dual frequency); built-in antenna                                     |
| WWAN  | 2G: 900/1800MHz<br>3G: 900/1900/2000/2100MHz<br>4G: TDD-LTE: B38, B39, B40, B41 FDD-LTE: B1, B3, B5   |
| 蓝牙<br>Bluetooth   | Bluetooth 4.0, BLE  |
| GNSS  | 集成GPS, GLONASS和北斗; 内置天线, 支持AGPS<br>integrates GPS, GLONASS and BeiDou; built-in antenna supports AGPS   |

## 产品配件 Product accessories

详见配件指南  
See Accessories Guide for details



底座 (选配)  
Base (optional)



适配器  
Adapter



数据线  
Data line

# LT-C9076 超高频智能手持终端



## 产品介绍

该款设备是最新研发的一款轻便超高频智能手持终端。基于Android 6.0系统开发，采用高性能处理器，四核CPU，配置一流，运行快速。相比于其他超高频产品，这款设备最大的优势在于其轻便，广泛适用于多个行业领域，如零售导购、门店盘点、资产管理、车辆管理、高速收费、仓储管理、金融管理等，帮助用户快速实现信息化管理，提高工作效率。

## Application area

This device is the latest research and development of a portable ultra-high frequency intelligent handheld terminal. Based on Android 6.0 system development, using high-performance processors, four-core CPU, first-class configuration, fast operation. Compared with other UHF products, the biggest advantage of this equipment is its lightness, which is widely used in many industries, such as retail shopping guide, store inventory, asset management, vehicle management, high-speed charging, warehousing management, financial management, etc. to help users quickly realize information management and improve work efficiency.



## 产品参数 Product characteristics

| 物理参数 Physical parameters      |  |
|-------------------------------|--|
| 整机尺寸 Whole machine size       | 162.5mm*80.0mm*14.5mm  |
| 整机重量 Weight                   | 540g   |
| 显示屏 Display screen            | 5.2寸 IPS FHD 1920x1080分辨率<br>5.2 inch, IPS FHD 1920x1080 resolution  |
| 触控屏 Touch screen              | 康宁大猩猩玻璃，支持多点触控，支持手套或湿手操作<br>Corning gorilla glass, support multi-touch, glove or wet hand operation  |
| 电池容量 Battery capacity         | 主机配可充电锂聚合物电池4000mAh<br>The main engine is equipped with rechargeable lithium polymer battery 4000mAh<br>手柄含可充电锂电池 2600mAh<br>Handle with rechargeable lithium-ion battery 2600 mAh<br>待机时间>400小时<br>Standby time > 400 hours<br>工作时间>12小时 (取决于使用情况和网络环境)<br>Working hours > 12 hours (depending on usage and network environment)<br>充电时间3-4小时 ( 使用标配电源适配器和数据线 )<br>Charging time 3-4 hours (using standard power adapter and data line) |
| 扩展卡槽 Expansion card slot      | 1个SIM卡槽，一个卡槽SIM或TF二选一<br>One SIM slot, one SIM slot or TF alternative  |
| 通讯接口 Communication Interface  | USB2.0 Type-C, OTG   |
| 音频 Audio frequency            | 1个扬声器，1个麦克风<br>Speaker, 2 microphones  |
| 键盘 Keyboard                   | 4个主键盘，1个电源键，2个扫描键，1个多功能键<br>4 main keyboards, 1 power key, 2 scan keys, 1 multi-function key   |
| 传感器 Sensor                    | 重力传感器，光线传感器，距离传感器<br>Gravity sensor, light sensor, distance sensor   |
| 性能参数 performance parameter    |  |
| CPU                           | Cortex-A53 1.3GHz 四核<br>Cortex-A53 1.3GHz Quadrapole Core  |
| RAM+ROM                       | 2GB+16GB   |
| 拓展内存 Expand memory            | Micro SD ( TF ) 卡可扩展至32GB<br>Micro SD (TF) card can be extended to 32 GB   |
| 开发环境 development environment  | Android 6.0  |
| 操作系统 operating system         | Android 6.0  |
| SDK                           | 终端软件开发工具包<br>Terminal Software Development Toolkit   |
| 开发语言 development language     | Java   |
| 开发工具 development tool         | Eclipse / Android Studio   |
| 使用环境 Use environment          |  |
| 工作温度 temperature              | -20°C至50°C<br>-20 C to 50 C  |
| 储存温度 Storage temperature      | -40°C至70°C<br>-40 C to 70 C  |
| 环境湿度 Ambient humidity         | 5%RH - 95%RH (无凝结)<br>5% RH - 95% RH (no condensation)   |
| 跌落规格 Drop specification       | 在操作温度范围内，6面均能承受多次(至少20次)从1.5米高度跌落至混凝土地面的冲击<br>Within the operating temperature range, all six surfaces can withstand multiple (at least 20) shocks from a height of 1.5 meters to concrete ground.   |
| 滚动测试 Rolling test             | 滚动连续1000次0.5米，6个面接触面滚动后依然稳定运行，达到IEC滚动规格<br>Rolling continuously 1000 times 0.5 meters, 6 contact surfaces still run steadily after rolling, reaching the IEC rolling specifications.   |
| 防护等级 Protection level         | 主机IP65，达到IEC密封标准<br>host IP65, up to IEC sealing standard  |
| 静电防护 Electrostatic protection | ±8KV空气放电，±4KV接触放电<br>Air Discharge (+8KV) and Contact Discharge (+4KV)   |
| 数据通讯 Data communication       | 支持IEEE802.11 a/b/g/n协议, (2.4G/5G双频) 内置天线<br>Support IEEE802.11a/b/g/n protocol, built-in antenna (2.4G/5G dual frequency)  |
| WLAN                          | 2G: 900/1800MHz  |
| WWAN                          | 3G: 900/1900/2000/2100MHz  |
|                               | 4G: TDD-LTE: B38, B39, B40, B41 FDD-LTE: B1, B3  |
| 蓝牙 Bluetooth                  | Bluetooth 4.0, BLE   |
| GNSS                          | 集成GPS, GLONASS和北斗；内置天线，支持AGPS<br>Integrated GPS, GLONASS and Beidou; built-in antenna to support AGPS  |

## 产品配件 Product accessories

详见配件指南  
See Accessories Guide for details



底座 (选配)  
Base (optional)



适配器  
Adapter



数据线  
Data line

# LT-C9040 超高频智能手持终端



## 产品介绍

该款设备是我司研发升级的一款超高频工业级智能手持终端。其超高频RFID读写功能，具有更出色的灵敏度，读写信息更精准迅速，拥有独具特色有模快化设计，用户可根据使用需求进行定制化功能拓展的，现广泛用于资产管理、服装盘点、车辆管理、高速管理收费等领域。

## Application area

This equipment is an ultra-high frequency industrial intelligent handheld terminal developed and upgraded by our company. Its ultra-high frequency RFID reading and writing function has m



## 产品参数 Product characteristics

| 数据采集<br>data acquisition   |   |
|--|---|
| 条码采集 (选配)<br>Barcode acquisition (selection)   | Honeywell N4313 / Zebra Se965   |
| 一维扫描引擎<br>One-dimensional Scanning Engine  | Zebra SE4750 / Zebra SE4750MR   |
| 支持一维条码类型<br>Supporting one-dimensional barcode type  | UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS等 |
| 二维扫描引擎<br>Two-Dimensional Scanning Engine  |   |
| 支持二维码类型<br>Supporting two-dimensional bar code types   | MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, DutchPostal (KIX)等     |
| RFID超高频 (选配)<br>RFID UHF (Optional)  |   |
| 工作频率 (840-960MHz按需要定制频段)<br>Operating frequency (840-960MHz customized band as required)                   |   |
| 中国频率<br>China frequency  | 920-925MHz  |
| 美国频率<br>American frequency   | 902-928MHz  |
| 欧洲频率<br>European frequency   | 865-868MHz ( ETSI EN 302 208 )  |
| 其他频率<br>Other frequencies  | 其他多国频率标准 ( 可定制 )<br>Other Multinational Frequency Standards (Customizable)  |
| 协议标准<br>Protocol standard  | EPC C1 GEN2 / ISO18000-6C   |
| 天线参数<br>Antenna parameters   | 线极化天线 ( 1.8dBi ) / 圆极化天线 ( 4dBi )<br>Linearly Polarized Antenna ( 1.8dBi )/Circularly Polarized Antenna ( 4dBi )  |
| 功率<br>power  | 1W ( 30dBm , 支持 +5dBm ~ +30dBm 调节 )<br>1W ( 30dBm , support +5dBm ~ +30dBm adjustment )                           |
| 读卡距离<br>Card reading distance  | > 4.5米 ( 线极化 ) ; > 8米 ( 圆极化 )<br>> 4.5 m ( linear polarization ); > 8 m ( circular polarization )                 |
| 群读速率<br>Group rate   | > 200标签每秒 ( 圆极化 )<br>Gravity sensor, light sensor, distance sensor  |
| * 读卡距离与群读速率与实际环境有关<br>* Card reading distance and group reading rate are related to the actual environment |   |
| 指纹识别 ( 选配 )<br>Fingerprint identification (matching)   |   |
| 模块功能<br>Module function  | 指纹采集, 指纹比对, 指纹存储等<br>Fingerprint collection, fingerprint comparison, fingerprint storage, etc.                    |
| 传感器<br>sensor  | 电容式传感器TCS1/TCS2SS<br>Capacitive Sensor TCS1/TCS2SS  |
| 图像大小<br>Image size   | TCS1: 256x360 pixel ; TCS2SS : 208x288 pixel  |
| 有效图像尺寸<br>Effective image size   | TCS1 : 12.8x18mm ; TCS2SS : 10.4x14.4mm   |
| 图像分辨率<br>Image resolution  | 508DPI  |
| 标准<br>standard   | TCS1 : FIPS, STQC ; TCS2SS : ISO  |
| 其他模块 ( 选配 )<br>Other modules (optional)  |   |
| 卡槽<br>Card slot  | 最多支持2个PSAM<br>Up to 2PSAMs<br>支持ISO7816标准<br>Supporting ISO7816 Standard  |
| 协议标准<br>Protocol standard  |   |

## 产品配件 Product accessories

详见配件指南  
See Accessories Guide for details



# LT-C9050 超高频智能手持终端



## 产品介绍

该款设备是我司研发升级的超高频工业级智能手持终端。应用于Android5.1操作系统，支持双频WIFI和4G全网通，以及更出色的超高频读写功能。搭载四核处理器，拥有超大容量双电池设计、IP64高防护等级，现广泛应用于零售连、物流快递，服装管理，仓储管理，能源化工等领域。

## Application area

This equipment is an ultra-high frequency industrial intelligent handheld terminal developed and upgraded by our company. Apply to Android 5.1 operating system, support dual-band WI

FI and 4G all-networking, as well as better UHF read-write function. Pick-up four-core processor, with super-large capacity dual-battery design, IP64 high protection level, and 4G all-networking, as well as better UHF read-write function. Pick-up four-core processor, with super-large capacity dual-battery design, IP64 high protection level, is now widely used in retail companies, logistics



## 产品参数 Product characteristics

| 物理参数        |   |
|-------------|---|
| 整机尺寸        | 213mm x 87mm x 151mm  |
| 整机重量        | 456克 (超高频以及双电池系统)   |
| 显示屏         | 4.5寸, (480*800)分辨率, 16.7M色, 背光亮度可调  |
| 触控屏         | 1.6吋电容屏<br>Infrared Capacitive Touch Screen   |
| 电池容量        | 3.200 mAh可充电聚合物电池   |
| 电池容量        | 3.200 mAh可充电聚合物电池   |
| 扩展插槽        | 1 PSAM插槽, 1 SIM卡槽, 1 MicroSD(TF)卡槽  |
| 通信接口        | MicroUSB/支持OTG<br>MicroUSB/支持OTG  |
| 音频          | 麦克风, 听筒, 0.5W扬声器, 支持语音通话  |
| 键盘          | Microphone, microphone, 0.5W speaker, support voice calls   |
| 传感器         | 4个TP按键+3个侧键+QWERTY物理键盘/数字键盘   |
| 性能参数        | 4个TP按键+3个侧键+QWERTY物理键盘/数字键盘   |
| CPU (1)     | Qualcomm 1.3GHz 四核<br>Qualcomm 1.3GHz Quad Core   |
| RAM+ROM (1) | 1GB + 8GB   |
| CPU (2)     | Qualcomm 1GHz 四核<br>Qualcomm 1GHz tetranuclear  |
| RAM+ROM (2) | 1GB + 8GB   |
| 扩展内存        | MicroSD(TF)卡可扩展至32GB<br>MicroSD (TF) card can be extended to 32GB   |
| 开发环境        | development environment   |
| 操作系统        | Android 5.1   |
| SDK         | 终端软件开发工具包<br>Terminal Software Development Toolkit  |
| 开发语言        | Java  |
| 开发工具        | Eclipse / Android Studio  |
| 使用环境        | Work environment  |
| 工作温度        | -20°C至50°C<br>-20 °C to 50 °C   |
| 储存温度        | -40°C至70°C<br>-40 °C to 70 °C   |
| 环境湿度        | 5% RH - 95% RH (无凝结)<br>5% RH - 95% RH (no condensation)  |
| 跌落规格        | 在操作温度范围内, 6面均能承受多次从1.2米高度跌落至混凝土地面的冲击<br>Within the operating temperature range, all six surfaces can withstand multiple falls from 1.2 meters.Impact on concrete floor                                |
| 滚动测试        | 滚动连续跌落从1.6米高度5米, 6个面接触面滚动后依然稳定运行, 达到 IEC 滚动规格<br>Rolling 1000 times from 1.6 feet/5 meters, 6 contact surfaces rolling After that, it still runs steadily and meets the rolling specification of IEC. |
| 防护等级        | IP64, 达到IEC 封装标准<br>host IP64, up to IEC sealing standard   |
| 静电防护        | ±8KV空气放电, ±4KV接触放电<br>Air Discharge (+8KV) and Contact Discharge (+4KV)   |
| 数据通讯        | Data communication  |
| WLAN        | 支持 IEEE802.11 a/b/g/n 协议, 内置天线<br>Support IEEE802.11 a/b/g/n protocol, built-in antenna   |
| WWAN        | 2G : GPRS (850/900/1800 MHz)<br>3G : WCDMA B1 CDMA EVDO : EVDORevA 800MHz TD-SCDMA : B34 , B39<br>4G : TDD-LTE: B38, B39, B40, B41 FDD-LTE: B1, B3  |
| 蓝牙          | Bluetooth 4.0   |
| GNSS        | 集成 GPS, AGPS, 内置天线<br>Integrated GPS, AGPS, built-in antenna  |

| 数据采集              |   |
|-------------------|---|
| 条码采集(选配)          | Barcode acquisition (selection)   |
| 一维扫描引擎            | One-dimensional Scanning Engine   |
| 支持一条条码类型          | Honeywell N4313/ Zebra Se965  |
| 二维扫描引擎            | Two-Dimensional Scanning Engine   |
| 支持二位条码类型          | UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS等 |
| RFID超高频(选配)       | RFID UHF (Optional)   |
| 工作频率              | (860-960MHz)按需要定制频段   |
| 中国频率              | 920-925MHz  |
| 美国频率              | 902-928MHz  |
| 欧洲频率              | 865-868MHz ( ETSI EN 302 208 )  |
| 其他频率              | 其他多国频率标准 (可定制)<br>Other Multinational Frequency Standards (Customizable)  |
| 协议标准              | EPC C1 GEN2 / ISO18000-6C   |
| 天线参数              | 线极化天线 (1.8dBi) / 圆极化天线 (4dBi)<br>Linear Polarized Antenna (1.8dBi)/Circularly Polarized Antenna (4dBi)            |
| 功率                | 1W (30dBm, 支持+5dBm~+30dBm调节)<br>1W (30dBm, support + 5dBm ~ + 30dBm adjustment)                                   |
| 读卡距离              | > 6m (线极化) > 10m (圆极化)<br>> 6m (linear polarization); > 10 m (circular polarization)                              |
| 群读速率              | > 200张每秒 (线极化)<br>> 200 labels per second (circular polarization)   |
| *读卡距离与群读速率与实际环境有关 |   |
| *读卡距离和群读速率与实际环境有关 |   |
| 指纹识别(选配)          |   |
| 模块功能              | Fingerprint identification (matching)   |
| 传感器               | 模块功能<br>Module function   |
| 图像大小              | 传感器<br>sensor   |
| 有效像素尺寸            | 图像大小<br>Image size  |
| 图像分辨率             | 有效像素尺寸<br>Effective image size  |
| 标准                | 图像分辨率<br>Image resolution   |
| 其他模块(选配)          |   |
| 卡槽                | 标准<br>standard  |
| 协议标准              | 其他模块(选配)<br>Other modules (optional)  |
| Card slot         | 最多支持2个PSAM<br>Up to 2 PSAMs   |
| Protocol standard | 支持ISO7816标准<br>Supporting ISO7816 Standard  |

## 产品配件 Product accessories

详见配件指南  
See Accessories Guide for details



## ▶ 读写器天线

### ◎ 3dBi 美标纯天线

• LT-TX1605

#### 【产品概述】

- 902-928MHz
- 增益 3dBi
- Gain 3dBi
- 垂直极化
- Vertical polarization
- 尺寸 160\*135\*5mm
- Size 160\*135\*5mm

#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Warehouse application
- 人员识别
- Personnel identification



| 电气指标 Electrical index      |                            |
|----------------------------|----------------------------|
| 频率范围 frequency range       | 860-960MHz                 |
| 增益 Gain                    | 3dBi                       |
| 波瓣宽度 Lobe width            | Hor : 360° Ver : 60°       |
| 极化方式 Polarization mode     | 垂直极化 Vertical polarization |
| 电压驻波比 VSWR                 | ≤1.5                       |
| 阻抗 impedance               | 50Ω                        |
| 最大输入功率 Maximum input power | 50W                        |
| 雷电保护 Lightning Protection  | 直流接地 DC grounding          |
| 接头类型 Type of connector     | N座 N block                 |
| 机械指标 Mechanical index      |                            |
| 天线尺寸 Antenna size          | 160*135*5mm                |
| 天线净重 Antenna net weight    | 0.12kg                     |
| 包装尺寸 Packing dimensions    | 24*4*21cm                  |
| 天线毛重 Antenna gross weight  | 0.2kg                      |
| 天线罩材料 Radome material      | ABS                        |
| 天线罩颜色 Radome color         | 白色 white                   |
| 工作温度 working temperature   | -40-70°C                   |

## ▶ 读写器天线

### ◎ 6dBi 美标纯天线

• LT-TX1318

#### 【产品概述】

- 902-928MHz
- 增益 6dBi
- Gain 6dBi
- 圆极化
- Vertical polarization
- 尺寸 130\*130\*18mm
- Size 130\*130\*18mm

#### 【产品应用】

- 智能零售
- Smart retailing
- 冰柜管理
- Freezer management
- 资产管理
- asset management
- 文件柜管理
- Document cabinet management



| 电气指标 Electrical index      |                           |
|----------------------------|---------------------------|
| 频率范围 frequency range       | 902-928MHz                |
| 增益 Gain                    | 6dBi                      |
| 波瓣宽度 Lobe width            | Hor : 90° Ver : 90°       |
| 极化方式 Polarization mode     | 圆极化 Vertical polarization |
| 电压驻波比 VSWR                 | ≤1.4                      |
| 前后比 Ratio before and after | ≥20                       |
| 阻抗 impedance               | 50Ω                       |
| 最大输入功率 Maximum input power | 50W                       |
| 雷电保护 Lightning Protection  | 直流接地 DC grounding         |
| 接头类型 Type of connector     | SMA座 SMA block            |
| 机械指标 Mechanical index      |                           |
| 天线尺寸 Antenna size          | 130*130*18mm              |
| 天线净重 Antenna net weight    | 0.25kg                    |
| 包装尺寸 Packing dimensions    | 17*17*3.5cm               |
| 天线毛重 Antenna gross weight  | 0.25kg                    |
| 天线罩材料 Radome material      | ABS                       |
| 天线罩颜色 Radome color         | 白色 white                  |
| 工作温度 working temperature   | -40-70°C                  |

### ◎ 4dBi 美标纯天线

• LT-TX1652

#### 【产品概述】

- 902-928MHz
- 增益 4dBi
- Gain 4dBi
- 圆极化
- circular polarization
- 尺寸 165\*165\*20mm
- Size 165\*165\*20mm

#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Warehouse application
- 文件柜管理
- Document cabinet management



| 电气指标 Electrical index          |                           |
|--------------------------------|---------------------------|
| 频率范围 frequency range           | 902-928MHz                |
| 增益 Gain                        | 4dBi                      |
| 波瓣宽度 Lobe width                | Hor : 60° Ver : 60°       |
| 极化方式 Polarization mode         | 圆极化 Vertical polarization |
| 电压驻波比 VSWR                     | ≤1.4                      |
| 前后比 Ratio before and after     | ≥20                       |
| 阻抗 impedance                   | 50Ω                       |
| 最大输入功率 Maximum input power     | 50W                       |
| 雷电保护 Lightning Protection      | 直流接地 DC grounding         |
| 接头类型 Type of connector         | N座 N block                |
| 机械指标 Mechanical index          |                           |
| 天线尺寸 Antenna size              | 165*165*20mm              |
| 天线净重 Antenna net weight        | 0.30kg                    |
| 包装尺寸 Packing dimensions        | 17*17*3.5cm               |
| 天线毛重 Antenna gross weight      | 1.35kg                    |
| 天线罩材料 Radome material          | ABS                       |
| 天线罩颜色 Radome color             | 白色 white                  |
| 抱杆直径 Holding rod diameter      | Φ30-50 mm                 |
| 最大抗风强度 Maximum Wind Resistance | 60m/s                     |
| 工作温度 working temperature       | -40-70°C                  |

#### 【产品概述】

- 902-928MHz
- 增益 7dBi
- Gain 7dBi
- 圆极化
- circular polarization
- 尺寸 210\*180\*45mm
- Size 210\*180\*45mm

#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Access control system
- 停车场管理
- Parking lot management



| 电气指标 Electrical index      |                           |
|----------------------------|---------------------------|
| 频率范围 frequency range       | 902-928MHz                |
| 增益 Gain                    | 7dBi                      |
| 波瓣宽度 Lobe width            | Hor : 60° Ver : 60°       |
| 极化方式 Polarization mode     | 圆极化 circular polarization |
| 电压驻波比 VSWR                 | ≤1.4                      |
| 前后比 Ratio before and after | ≥20                       |
| 阻抗 impedance               | 50Ω                       |
| 最大输入功率 Maximum input power | 50W                       |
| 雷电保护 Lightning Protection  | 直流接地 DC grounding         |
| 接头类型 Type of connector     | N座 N block                |
| 机械指标 Mechanical index      |                           |
| 天线尺寸 Antenna size          | 210*180*45mm              |
| 天线净重 Antenna net weight    | 0.35kg                    |
| 包装尺寸 Packing dimensions    | 25*6*19cm                 |
| 天线毛重 Antenna gross weight  | 0.8kg                     |
| 天线罩材料 Radome material      | ABS                       |
| 天线罩颜色 Radome color         | 白色 white                  |
| 工作温度 working temperature   | -40-70°C                  |

## 读写器天线

### ◎8dBi美标纯天线

• LT-TX2545

#### 【产品概述】

- 902-928MHz
- 增益 8dBi
- Gain 8dBi
- 圆极化
- circular polarization
- 尺寸256\*256\*45mm
- Size 256\*256\*45mm

#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Warehouse application
- 停车场管理
- Parking lot management



| 电气指标 Electrical index          |                           |
|--------------------------------|---------------------------|
| 频率范围 frequency range           | 902-928MHz                |
| 增益 Gain                        | 8dBi                      |
| 波瓣宽度 Lobe width                | Hor : 60° Ver : 60°       |
| 极化方式 Polarization mode         | 圆极化 Vertical polarization |
| 电压驻波比 VSWR                     | ≤1.4                      |
| 前后比 Ratio before and after     | ≥20                       |
| 阻抗 impedance                   | 50Ω                       |
| 最大输入功率 Maximum input power     | 50W                       |
| 雷电保护 Lightning Protection      | 直流接地 DC grounding         |
| 接头类型 Type of connector         | N座 N block                |
| 机械指标 Mechanical index          |                           |
| 天线尺寸 Antenna size              | 256*256*45mm              |
| 天线净重 Antenna net weight        | 0.65kg                    |
| 包装尺寸 Packing dimensions        | 29*29*8cm                 |
| 天线毛重 Antenna gross weight      | 1.35kg                    |
| 天线罩材料 Radome material          | ABS                       |
| 天线罩颜色 Radome color             | 白色 white                  |
| 抱杆直径 Holding rod diameter      | Φ30-50 mm                 |
| 最大抗风强度 Maximum Wind Resistance | 60m/s                     |
| 工作温度 working temperature       | -40-70°C                  |

## 读写器天线

### ◎10dBi美标纯天线

• LT-TX4230

#### 【产品概述】

- 902-928MHz
- 增益 10dBi
- Gain 10dBi
- 圆极化
- circular polarization
- 尺寸420\*240\*30mm
- Size 420\*240\*30mm

#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Warehouse application
- 停车场管理
- Parking lot management



| 电气指标 Electrical index          |                           |
|--------------------------------|---------------------------|
| 频率范围 frequency range           | 902-928MHz                |
| 增益 Gain                        | 10dBi                     |
| 波瓣宽度 Lobe width                | Hor : 70° Ver : 70°       |
| 极化方式 Polarization mode         | 圆极化 Vertical polarization |
| 电压驻波比 VSWR                     | ≤1.4                      |
| 前后比 Ratio before and after     | ≥20                       |
| 阻抗 impedance                   | 50Ω                       |
| 最大输入功率 Maximum input power     | 50W                       |
| 雷电保护 Lightning Protection      | 直流接地 DC grounding         |
| 接头类型 Type of connector         | N座 N block                |
| 机械指标 Mechanical index          |                           |
| 天线尺寸 Antenna size              | 420*240*30mm              |
| 天线净重 Antenna net weight        | 1.15kg                    |
| 包装尺寸 Packing dimensions        | 45*25*5.5cm               |
| 天线毛重 Antenna gross weight      | 1.95kg                    |
| 天线罩材料 Radome material          | ABS                       |
| 天线罩颜色 Radome color             | 白色 white                  |
| 抱杆直径 Holding rod diameter      | Φ30-50 mm                 |
| 最大抗风强度 Maximum Wind Resistance | 60m/s                     |
| 工作温度 working temperature       | -40-70°C                  |

### ◎9dBi美标纯天线

• LT-TX2640

#### 【产品概述】

- 902-928MHz
- 增益 9dBi
- Gain 9dBi
- 圆极化
- circular polarization
- 尺寸260\*260\*40mm
- Size 260\*260\*40mm

#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Access control system
- 停车场管理
- Parking lot management



| 电气指标 Electrical index          |                           |
|--------------------------------|---------------------------|
| 频率范围 frequency range           | 902-928MHz                |
| 增益 Gain                        | 9dBi                      |
| 波瓣宽度 Lobe width                | Hor : 70° Ver : 70°       |
| 极化方式 Polarization mode         | 圆极化 Vertical polarization |
| 电压驻波比 VSWR                     | ≤1.4                      |
| 前后比 Ratio before and after     | ≥20                       |
| 阻抗 impedance                   | 50Ω                       |
| 最大输入功率 Maximum input power     | 50W                       |
| 雷电保护 Lightning Protection      | 直流接地 DC grounding         |
| 接头类型 Type of connector         | N座 N block                |
| 机械指标 Mechanical index          |                           |
| 天线尺寸 Antenna size              | 260*260*40mm              |
| 天线净重 Antenna net weight        | 1.1kg                     |
| 包装尺寸 Packing dimensions        | 29*29*8cm                 |
| 天线毛重 Antenna gross weight      | 1.68kg                    |
| 天线罩材料 Radome material          | ABS                       |
| 天线罩颜色 Radome color             | 白色 white                  |
| 抱杆直径 Holding rod diameter      | Φ30-50 mm                 |
| 最大抗风强度 Maximum Wind Resistance | 60m/s                     |
| 工作温度 working temperature       | -40-70°C                  |

### ◎12dBi美标纯天线

• LT-TX4095

#### 【产品概述】

- 902-928MHz
- 增益 12dBi
- Gain 12dBi
- 圆极化
- circular polarization
- 尺寸440\*440\*40mm
- Size 440\*440\*40mm

#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Warehouse application
- 停车场管理
- Parking lot management



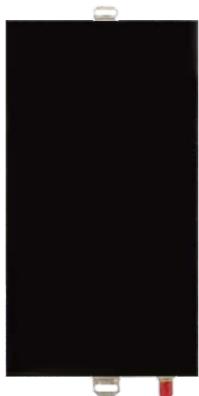
| 电气指标 Electrical index          |   |
|--------------------------------|---|
| 频率范围 frequency range           | 902-928MHz  |
| 增益 Gain                        | 12dBi   |
| 波瓣宽度 Lobe width                | Hor : 45° Ver : 45°   |
| 极化方式 Polarization mode         | 圆极化/垂直极化/水平化 Circular Polarization/Vertical Polarization/Horizontal |
| 电压驻波比 VSWR                     | ≤1.5  |
| 前后比 Ratio before and after     | ≥25   |
| 阻抗 impedance                   | 50Ω   |
| 最大输入功率 Maximum input power     | 50W   |
| 雷电保护 Lightning Protection      | 直流接地 DC grounding   |
| 接头类型 Type of connector         | N座 N block  |
| 机械指标 Mechanical index          |   |
| 天线尺寸 Antenna size              | 440*440*40mm  |
| 天线净重 Antenna net weight        | 2.1kg   |
| 包装尺寸 Packing dimensions        | 60*48*11cm  |
| 天线毛重 Antenna gross weight      | 3.92kg  |
| 天线罩材料 Radome material          | ABS   |
| 天线罩颜色 Radome color             | 白色 white  |
| 抱杆直径 Holding rod diameter      | Φ30-50 mm   |
| 最大抗风强度 Maximum Wind Resistance | 60m/s   |
| 工作温度 working temperature       | -40-70°C  |

## ▶ 读写器天线

### ◎ 3dBi美标平板天线 • LT-TX2020

#### 【产品概述】

- 902-928MHz
- 增益 3dBi
- Gain 3dBi
- 圆极化
- circular polarization
- 尺寸 200\*100\*20mm
- Size 200\*100\*20mm



#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Warehouse application
- 生产线管理
- Production Line Management

| 电气指标 Electrical index      |                         |
|----------------------------|-------------------------|
| 频率范围 frequency range       | 865-868MHz              |
| 增益 Gain                    | 3dBi                    |
| 波瓣宽度 Lobe width            | Hor : 60° Ver : 60°     |
| 极化方式 Polarization mode     | 圆极化 Linear polarization |
| 电压驻波比 VSWR                 | ≤1.5                    |
| 前后比 Ratio before and after | ≥25                     |
| 阻抗 impedance               | 50Ω                     |
| 最大输入功率 Maximum input power | 50W                     |
| 雷电保护 Lightning Protection  | 直流接地 DC grounding       |
| 接头类型 Type of connector     | SMA座 SMA block          |
| 机械指标 Mechanical index      |                         |
| 天线尺寸 Antenna size          | 200*100*20mm            |
| 天线净重 Antenna net weight    | 0.3kg                   |
| 包装尺寸 Packing dimensions    | 21*10.5*2.5cm           |
| 天线毛重 Antenna gross weight  | 1.0kg                   |
| 天线罩材料 Radome material      | 有机玻璃 Plexiglass         |
| 天线罩颜色 Radome color         | 黑色 black                |
| 工作温度 working temperature   | -40-70°C                |

## ▶ 读写器天线

### ◎ 8dBi美标平板天线 • LT-TX6028

#### 【产品概述】

- 902-928MHz
- 增益 8dBi
- Gain 8dBi
- 圆极化
- circular polarization
- 尺寸 453\*163\*20mm
- Size 453\*163\*20mm



#### 【产品应用】

- 智能零售
- Smart retailing
- 冰柜管理
- Freezer management
- 门禁系统
- Warehouse application
- 文件柜管理
- Document cabinet management

| 电气指标 Electrical index      |                           |
|----------------------------|---------------------------|
| 频率范围 frequency range       | 902-928MHz/865-868MHz     |
| 增益 Gain                    | 8dBi                      |
| 波瓣宽度 Lobe width            | Hor : 45° Ver : 45°       |
| 极化方式 Polarization mode     | 圆极化 circular polarization |
| 电压驻波比 VSWR                 | ≤1.4                      |
| 前后比 Ratio before and after | ≥20                       |
| 阻抗 impedance               | 50Ω                       |
| 最大输入功率 Maximum input power | 50W                       |
| 雷电保护 Lightning Protection  | 直流接地 DC grounding         |
| 接头类型 Type of connector     | SMA座 SMA block            |
| 机械指标 Mechanical index      |                           |
| 天线尺寸 Antenna size          | 453*163*20mm              |
| 天线净重 Antenna net weight    | 0.7kg                     |
| 包装尺寸 Packing dimensions    | 49*22*3cm                 |
| 天线毛重 Antenna gross weight  | 1.2kg                     |
| 天线罩材料 Radome material      | ABS                       |
| 天线罩颜色 Radome color         | 白色 white                  |
| 工作温度 working temperature   | -40-70°C                  |

### ◎ 5dBi美标平板天线 • LT-TX4620

#### 【产品概述】

- 902-928MHz
- 增益 5dBi
- Gain 6dBi
- 线极化
- Linear polarization
- 尺寸 460\*90\*20mm
- Size 460\*90\*20mm



#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Access control system
- 跑道管理
- Runway management

| 电气指标 Electrical index      |                         |
|----------------------------|-------------------------|
| 频率范围 frequency range       | 902-958MHz              |
| 增益 Gain                    | 5dBi                    |
| 波瓣宽度 Lobe width            | Hor : 60° Ver : 60°     |
| 极化方式 Polarization mode     | 线极化 Linear polarization |
| 电压驻波比 VSWR                 | ≤1.5                    |
| 前后比 Ratio before and after | ≥20                     |
| 阻抗 impedance               | 50Ω                     |
| 最大输入功率 Maximum input power | 50W                     |
| 雷电保护 Lightning Protection  | 直流接地 DC grounding       |
| 接头类型 Type of connector     | SMA座 SMA block          |
| 机械指标 Mechanical index      |                         |
| 天线尺寸 Antenna size          | 460*90*20mm             |
| 天线净重 Antenna net weight    | 0.65kg                  |
| 包装尺寸 Packing dimensions    | 60*11*2.5cm             |
| 天线毛重 Antenna gross weight  | 0.7kg                   |
| 天线罩材料 Radome material      | 有机玻璃 Plexiglass         |
| 天线罩颜色 Radome color         | 黑色 black                |
| 工作温度 working temperature   | -40-70°C                |

### ◎ 10dBi美标平板天线 • LT-TX6028

#### 【产品概述】

- 902-928MHz
- 增益 10dBi
- Gain 10dBi
- 线极化
- Linear polarization
- 尺寸 600\*100\*28mm
- Size 600\*100\*28mm



#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Warehouse application
- 文件柜管理
- Document cabinet management

| 电气指标 Electrical index      |                         |
|----------------------------|-------------------------|
| 频率范围 frequency range       | 902-928MHz              |
| 增益 Gain                    | 10dBi                   |
| 波瓣宽度 Lobe width            | Hor : 30° Ver : 120°    |
| 极化方式 Polarization mode     | 线极化 Linear polarization |
| 电压驻波比 VSWR                 | ≤1.5                    |
| 前后比 Ratio before and after | ≥25                     |
| 阻抗 impedance               | 50Ω                     |
| 最大输入功率 Maximum input power | 50W                     |
| 雷电保护 Lightning Protection  | 直流接地 DC grounding       |
| 接头类型 Type of connector     | SMA座 SMA block          |
| 机械指标 Mechanical index      |                         |
| 天线尺寸 Antenna size          | 600*100*28mm            |
| 天线净重 Antenna net weight    | 0.8kg                   |
| 包装尺寸 Packing dimensions    | 65*10.5*3.2cm           |
| 天线毛重 Antenna gross weight  | 1.0kg                   |
| 天线罩材料 Radome material      | PVS                     |
| 天线罩颜色 Radome color         | 白色 white                |
| 工作温度 working temperature   | -40-70°C                |

## ▶ 读写器天线

### ◎12dBi美标平板天线 •LT-TX9028

#### 【产品概述】

- 902-928MHz
- 增益 12dBi
- Gain 12dBi
- 线极化
- Linear polarization
- 尺寸 900\*100\*28mm
- Size 900\*100\*28mm



#### 【产品应用】

- REID物流追踪
- REID Logistics Tracking
- 库房应用
- Warehouse application
- 门禁系统
- Warehouse application
- 文件柜管理
- Document cabinet management

| 电气指标 Electrical index      |                         |
|----------------------------|-------------------------|
| 频率范围 frequency range       | 902-928MHz              |
| 增益 Gain                    | 12dBi                   |
| 波瓣宽度 Lobe width            | Hor : 30° Ver : 120°    |
| 极化方式 Polarization mode     | 线极化 Linear polarization |
| 电压驻波比 VSWR                 | ≤1.5                    |
| 前后比 Ratio before and after | ≥25                     |
| 阻抗 Impedance               | 50Ω                     |
| 最大输入功率 Maximum input power | 50W                     |
| 雷电保护 Lightning Protection  | 直流接地 DC grounding       |
| 接头类型 Type of connector     | SMA座 SMA block          |
| 机械指标 Mechanical index      |                         |
| 天线尺寸 Antenna size          | 900*100*28mm            |
| 天线净重 Antenna net weight    | 1.1kg                   |
| 包装尺寸 Packing dimensions    | 92*10.5*3.2cm           |
| 天线毛重 Antenna gross weight  | 1.8kg                   |
| 天线罩材料 Radome material      | PVS                     |
| 天线罩颜色 Radome color         | 挂耳安装 Ear mounting       |
| 工作温度 working temperature   | -40-70°C                |

## ▶ 成功案例



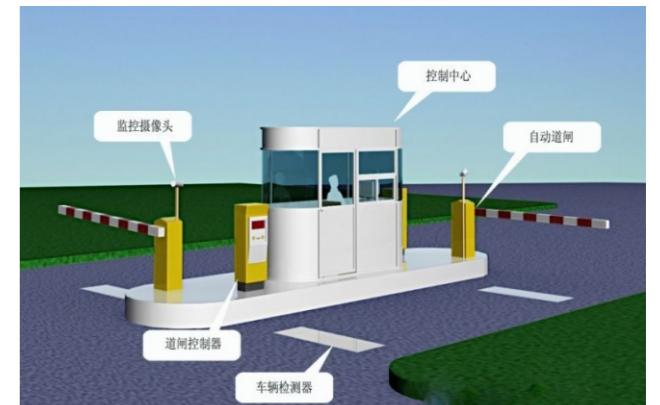
库房应用  
Warehouse application



无人零售  
Unmanned retailing



门禁系统  
Access control system



停车场管理  
Parking lot management



档案管理  
file management



车间生产  
Workshop production