

U位资产智能管理系统说明书
U-level Assets Management Manual
V3.2

深圳市数码人技术有限公司
ShenZhen Digitalor Technologies Co., Ltd.

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前言/preface.

感谢您使用深圳数码人技术公司生产的U位资产管理系统。本系统是数码人技术公司原创发明的MC-RFID物联网传感器系统,突破了传统RFID技术的局限性,彻底解决了RFID定位的精确性、U位场景可靠性、数据准确性这三大难题,实现了100%的数据准确性,具有高可靠、免维护、全生命周期低成本等特点。

Thank you for choosing the U-level Assets Management System produced by ShenZhen Digitalor Technologies Company. This system is an MC-RFID IOT sensor that is original invention by Digitalor, it had breakthrough on the traditional RFID technology, solved thoroughly these problems-accuracy of RFID label position, reliability of server scene and accuracy of data, which has achieved 100% data accuracy, with high reliability, maintenance-free and low cost of the whole life cycle.

是目前业界最具有规模化和商业价值的产品。

At present, this is most large-scale and commercial products in the industry.

美国专利授权号/US Patent: US9633 235 B2

本说明书对U位资产智能监控系统的安装运行,以及应用环境进行了详细的介绍. 在安装前请仔细阅读此说明书, 以便安全正确使用。

This manual provides a detailed introduction for installation, operation and application environment of U-level Assets Management System. Please read carefully the instruction before installation so that it can be operation safely.

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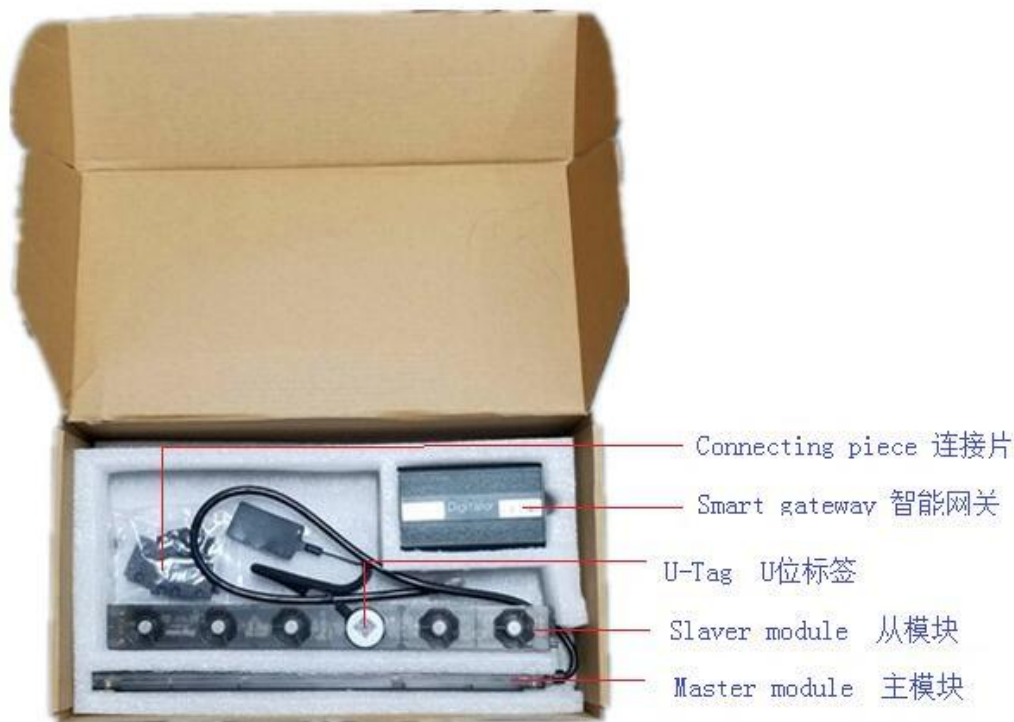
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1. 序言/Foreword

1.1 开箱检查/Checking

在开箱前,请认真检查外包装箱是否有破损现象,内包装箱内零配件是否与包装清单相符,如您有任何疑问请速与供货商或者我公司联系解决!

Please be careful checking outside box if there is any damage. Ensure the quantity of the parts is matched with the packing lists in the inner boxes. Please contact with supplier or our company if you have any confuse.



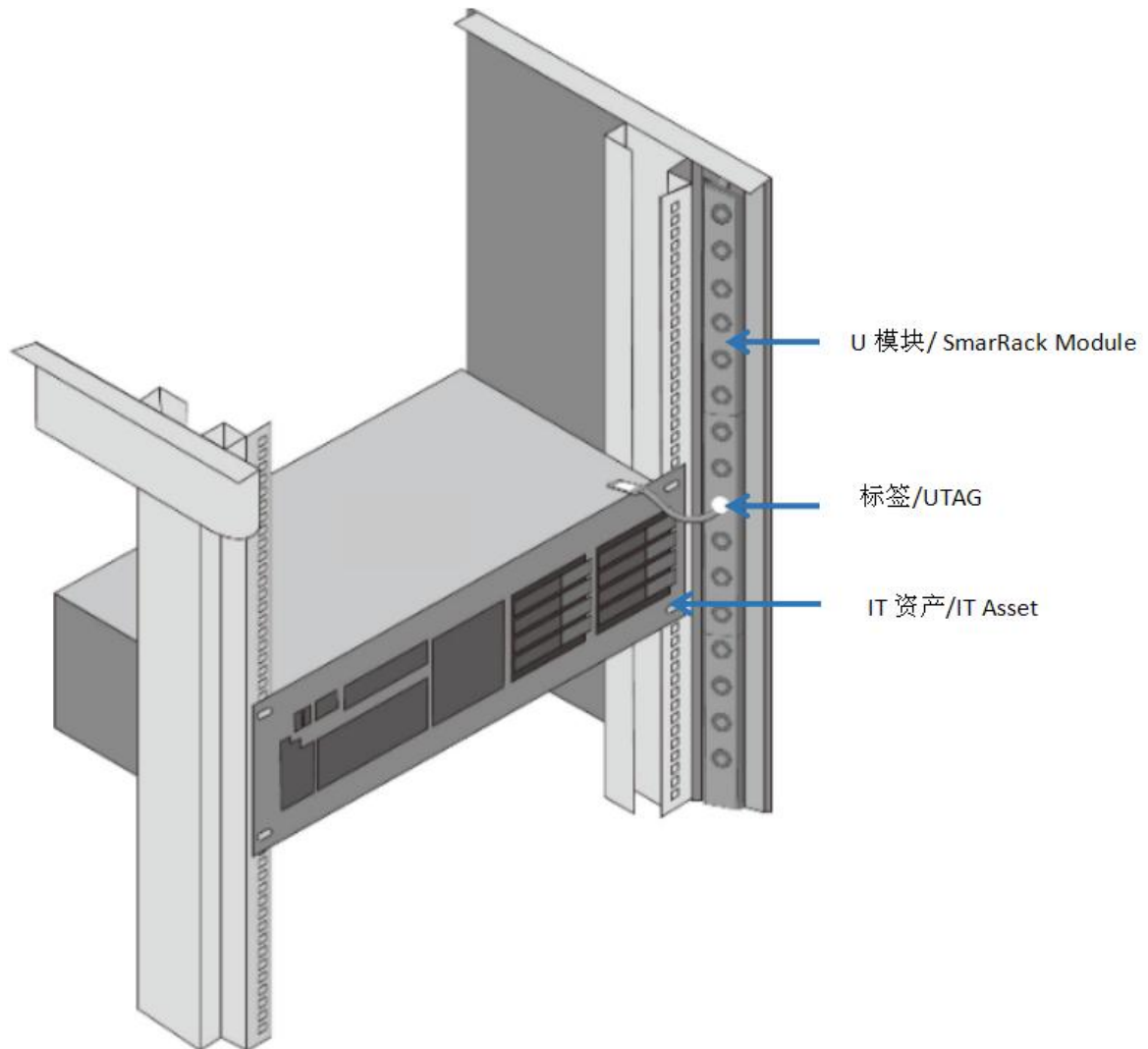
1.2 安装注意事项/Security

必须是贵公司已经授权的人才能安装此产品,并且确保机柜已经可靠接地,否则有触电的危险。

The operators for installation must be authorized by your company, and ensure the rack is reliable on the electrical grounding, or it may cause electrical shock.

2. 安装和运行示意图/ Installation & schematic

2.1 安装示意图/ Installation

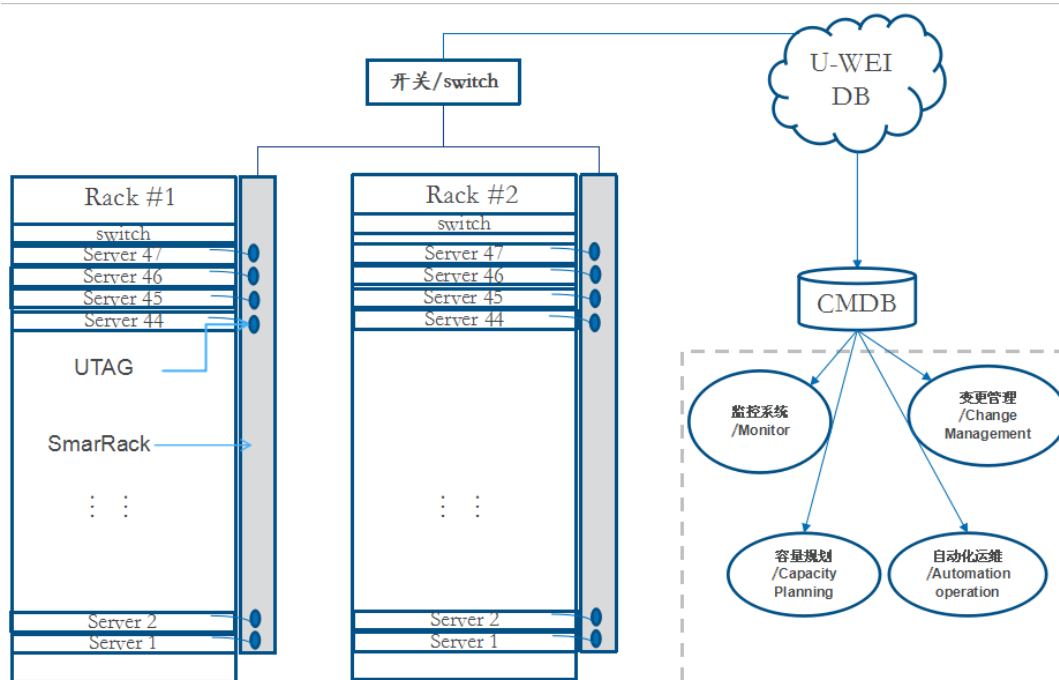


2.2 RFID标签安装/Installation of RFID label

2.2.1 安装RFID标签前，需要确认粘胶位置已经清洁干净，最好是用酒精擦拭设备表面，以确保能粘贴牢固。

You need to make sure that the position to stick UTAG is clean, it is best to wipe the surface of servers with alcohol to make sure it is securely pasted.

2.3 组网和运行示意图/ Network & operation



3. 相关技术标准/Related standards

标准/Standard	标准内容/Contents
GB 50348-2004	安全防范工程技术规范/Technical specification for safety protection engineering.
GB 50396-2007	出入口控制系统工程设计规范/code of design for access control systems engineering.
GB 50174-2008	电子信息系统机房设计规范/Code for design of electronic information system room.
EN55022:2006	信息技术设备-无线电干扰特性-限制和测量方法/ Information technology equipment — Radio disturbance characteristics —Limits and methods of measurement
IEC 60950-1	信息技术设备的安全 第1部分: 一般要求 /Information technology equipment – Safety. Part 1: General requirements
IEC61000-4-6	电磁兼容性(EMC). 第4-6部分:测试和测量技术. 射频场感应的传导干扰抗扰性. /Electromagnetic compatibility(EMC)-Part 4-6: Testing and measurement techniques-Immunity to conducted disturbances, induced by radio-frequency fields.
IEC61000-4-5	电磁兼容性(EMC). 第4-5部分: 试验和测量 /Electromagnetic compatibility(EMC)-Part4-5: Testing and measurement techniques -Surge immunity test
IEC61000-4-4	试验和测量技术-电快速瞬变脉冲群抗扰度试验/Electromagnetic compatibility(EMC)-Part 4-4: Testing and measurement techniques-Electrical fast transient /burst immunity test.
RED 2014/53/EU	欧洲无线产品认证/CE RED Certificate
91/263/EEC	电信终端设备 CE 认证/Telecommunications Terminal Equipment CE

4. 规格参数及环境要求/Specification parameters & environmental requirements

4.1 规格参数/ Specification parameters

项目/Item	规格描述/Specification
输入电压/Input voltage	12V /24V DC
输入电流/Input current	< 0.02A (Note: One block)
42U平均功耗/Average power consumption for 42U	≤2W
上行通信方式/Upload Communication mode	RS485
下行通信方式/Down Communication mode	RS485 USART
U位数量/ U quantity of one block	6U
工作频率/Frequency	13.56MHZ
标签与模块的数据通信方式/ Communication mode	RFID非接触式/RFID non-contact
RFID读取方式/Read ways	自动读取/Auto-read
标签读取距离/Distance for reading	< 20mm
标签与U位模块固定方式/Fixing module with RFID	磁力吸附/Magnet
散热要求/Cooling	自然散热/Room cooling
防护等级/Protection class	IP50
外形尺寸/Dimension	267 x 27 x 12 mm
重量/Weight	150±5g
外壳材质/Material	PC阻燃材料/ Flame retardant PC
颜色/Color	黑色/Black

4.2 环境要求/ Environmental requirements

应用参数/Parameter		使用条件/ Application	运输条件/ Transportation	贮存条件/ Storage	备注/ Remark
项目/Item	单位/Unit				
温度/ Temperature	℃	-20	-40	-40	/
	℃	+55	+70	+70	
湿度/ Humidity	%	5	/	5	/
	%	95	/	95	
海拔高度/ Altitude	m	0	0	0	/
	m	3000	3000	3000	

5. 维护/Maintenance

定期检查固定螺丝是否松动，所有电源线和线路的连接都安全可靠，并保持外观完好，定期吹扫设备表面，清除灰尘，保持机柜卫生。

Regular checking the screw of U-module if there's any loose, all connection is reliable to the power cables and wires, and keep the appearance intact, blow the surface of the equipment regularly, clean dust and keep the cleaning for cabinet.

6. 标准42U模块包装清单以及数量/Packing lists & quantity

名称/Name	型号/Type	数量/Quantity
主模块/Master Module	UR5000-MT-6	1pcs
从模块/Slaver Module	UR5000-SL-6	6pcs
智能网关 Smart gateway	V5008MQ	1pcs
其他：使用说明书、装箱清单、配置表、安装规范、保修书、合格证、包装纸盒及防震泡沫/Other: Manual, list, configuration table, specification, warranty certification and foam.		

7. 有毒有害物质含量表/RoHS 6 category

有毒有害物质含量表/RoHS 6 category						
U位资产管理系统 /U-level system	有毒有害物质(Hazardous Chemicals)					
	铅 (Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴联苯醚 (PBDE)
主模块/Master Model	O	O	O	O	O	O
从模块/Sub-Model	O	O	O	O	O	O
电源/Adapter	X	O	O	O	O	X
线缆/Cable	O	O	O	O	O	O
纸箱/Box	O	O	O	O	O	O
泡沫/Foam	O	O	O	O	O	O
O:表示该有毒有害物质在该部件中的含量在规定的RoHS6项的限额要求下/ The content of this toxic and harmful substance in the parts is required below the specified limit of RoHs 6 category						
X:表示该有毒有害物质至少在该部件的某一均值中的含量不满足RoHS 6项的限额以下，由于技术原因目前无法实现替代，后续随着技术上的改进将逐渐改进/ Meaning the toxic and harmful substances in the parts of at least one average content did not meet the requirement of RoHS 6 category, At present,it cannot be replaced due to technical reasons. It will be improved with the new technologies improvement.						

FCC Warning

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.

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

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.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.