



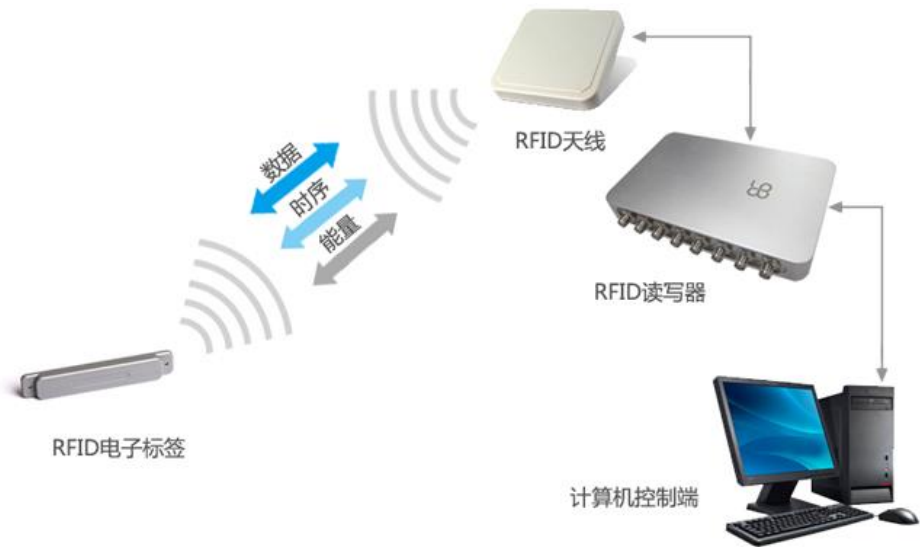
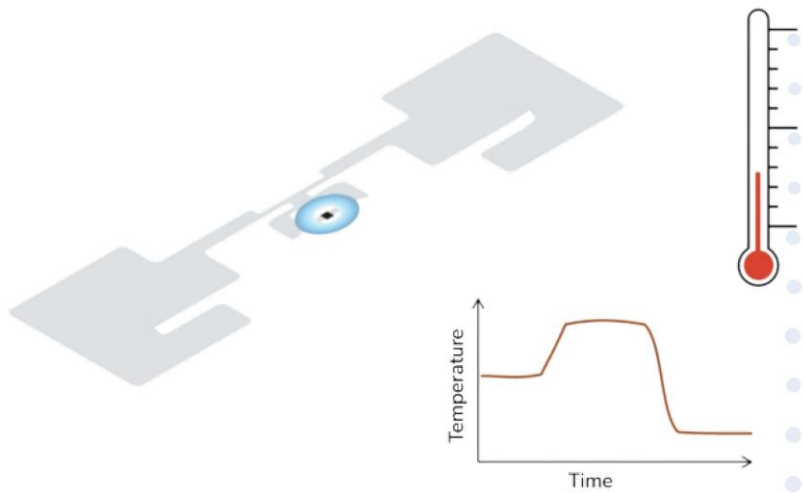
上海创馨科技（集团）有限公司

Axzon 无线温湿度检测技术
2024-7-15



Axzon 无线测温及相对湿度探测技术

1ST-LABS



RFID被动式无源传感技术

FCC 902 to 928 MHz

ETSI 865.6 MHz to 867.6MHz

Axzon 核心器件规格

1ST-LABS

支持湿度检测

无源，终身免维护

无线束，无忌高压系统

超薄，支持金属表面

多种形态，灵活实施

高可靠性，低维护成本

FEATURE	MAGNUS M3D	MAGNUS M3E
EPC Memory	128 bit	128 bit
User Memory	128 bit	128 bit
TID Memory	64 bit	64 bit
Sensor Code Resolution	0 to 511	NA
On-chip RSSI Resolution	32 steps (5 bits)	32 steps (5 bit)
IC Operating Temperature	-40°C to +125°C	-40°C to +125°C
IC Sensitivity Read (25°C)	-16.1 dBm	-18.6 dBm
IC Sensitivity Write (25°C)	-10.1 dBm	-12.6 dBm
Temperature Code Resolution	4096 Steps (12 bits)	4096 Steps (12 bit)
Temperature Range	20°C, +85°C	20°C, +85°C
Temperature Accuracy	±0.5°C	±0.5°C
Extended Temperature Range	-20°C to +125°C	-20°C to +125°C
Temperature Accuracy	>+1.0°C, ±3.0°C	>+1.0°C, ±3.0°C

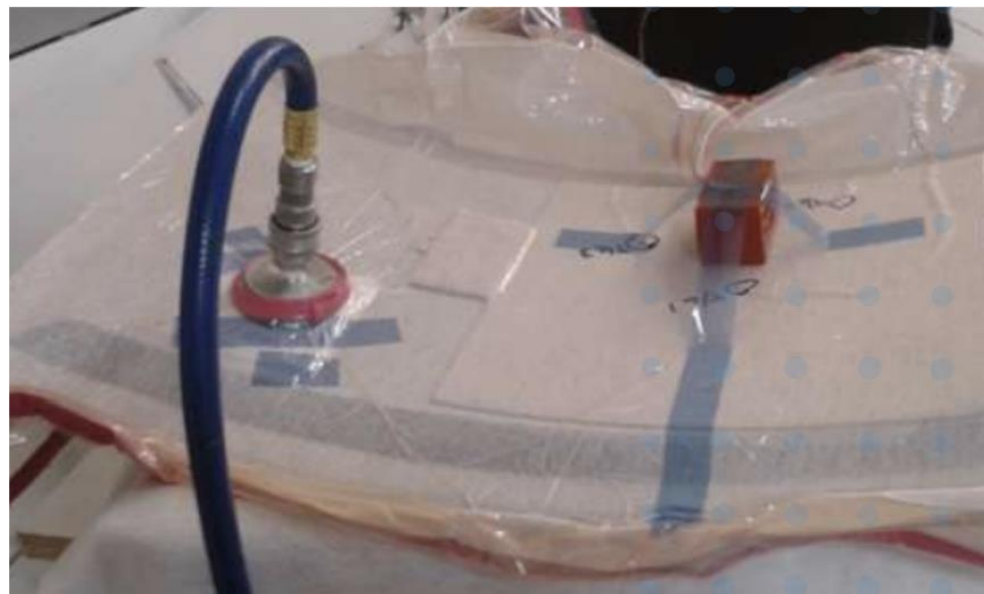
需要护理的老人及婴幼儿监护-温湿度监测



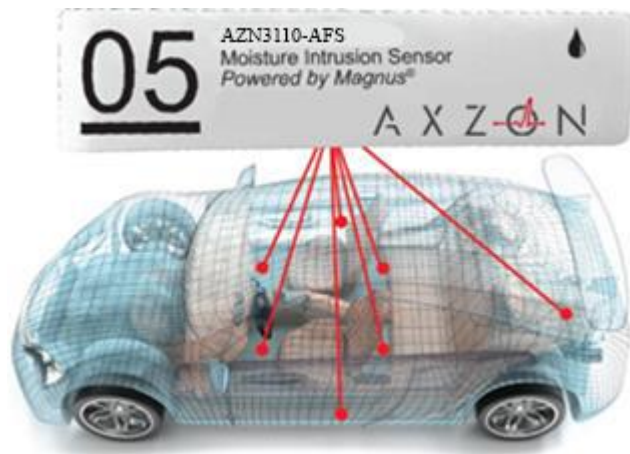
典型应用场景-工业水分传感器

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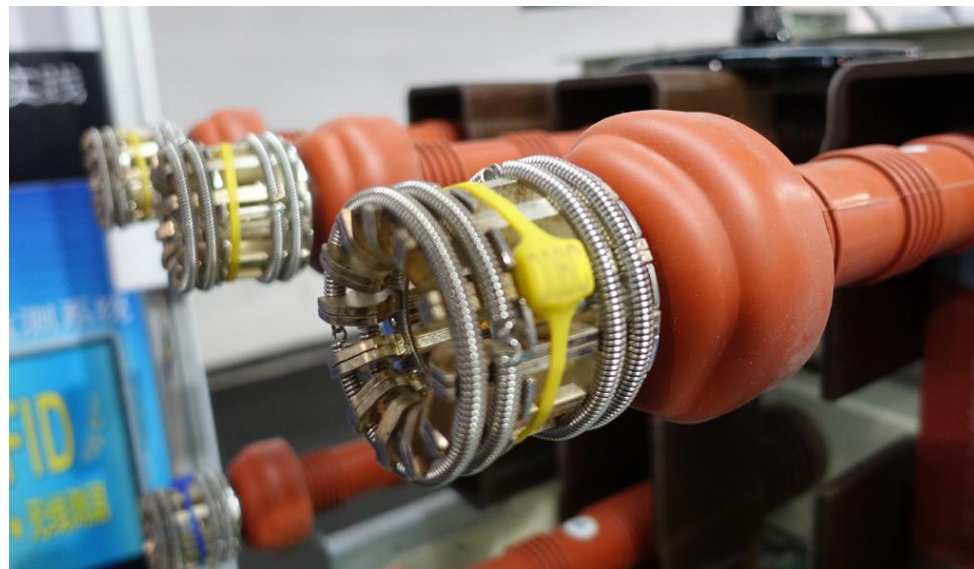
一定范围内的湿度及温度测量（距离8米）



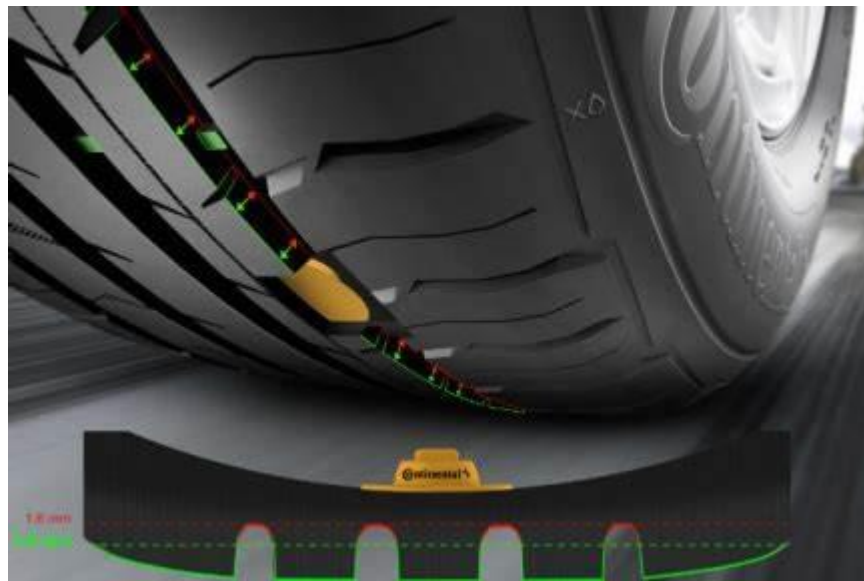
金属表面漏水监测传感器



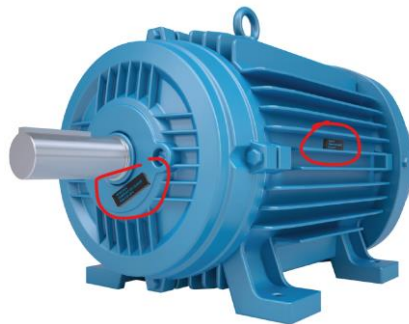
实验室物品温度监测（距离8米）



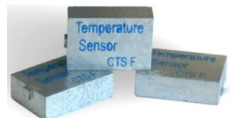
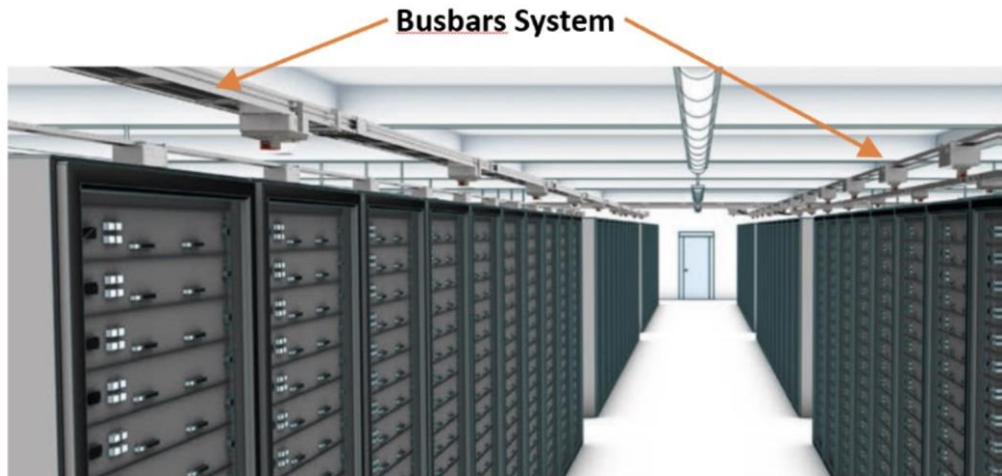
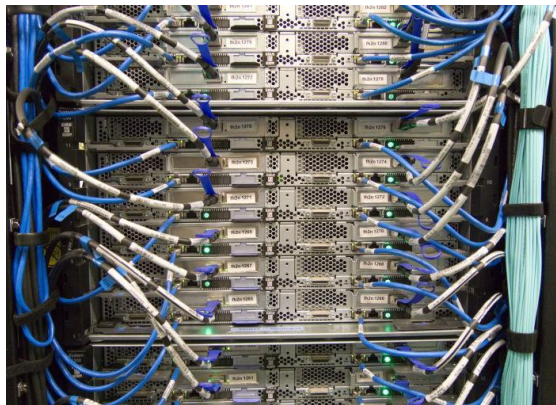
橡胶制品温度传感器（距离8米）



工业设备温度及湿度监测

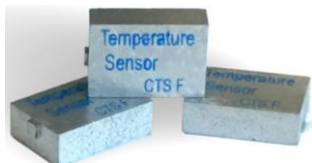


金属表面长距离传感器（距离18米）

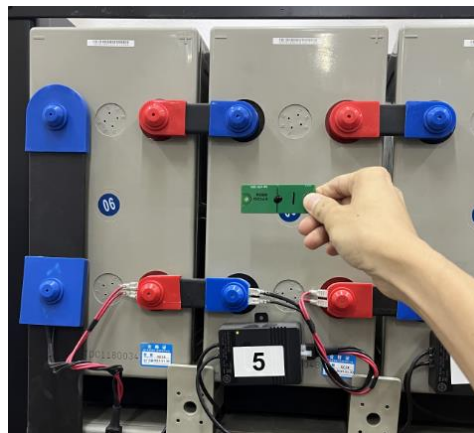
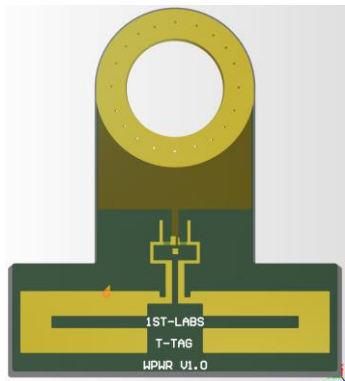


大型数据中心空调能源优化监测系统

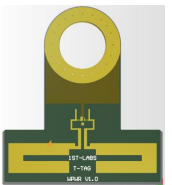
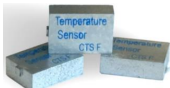
输配电安全温度监测



储能电池包安全温度监测



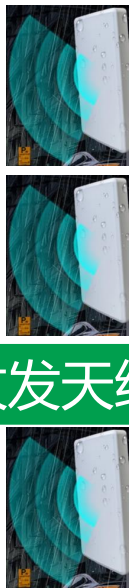
传感器销售



Max
18米



收发天线



完整的实施方案

采集节点



智能多口网关



自研：采集节点板卡



射频读卡器
天线通道数
1 : 4 : 8 : 16

Lora, WIFI
天线接口



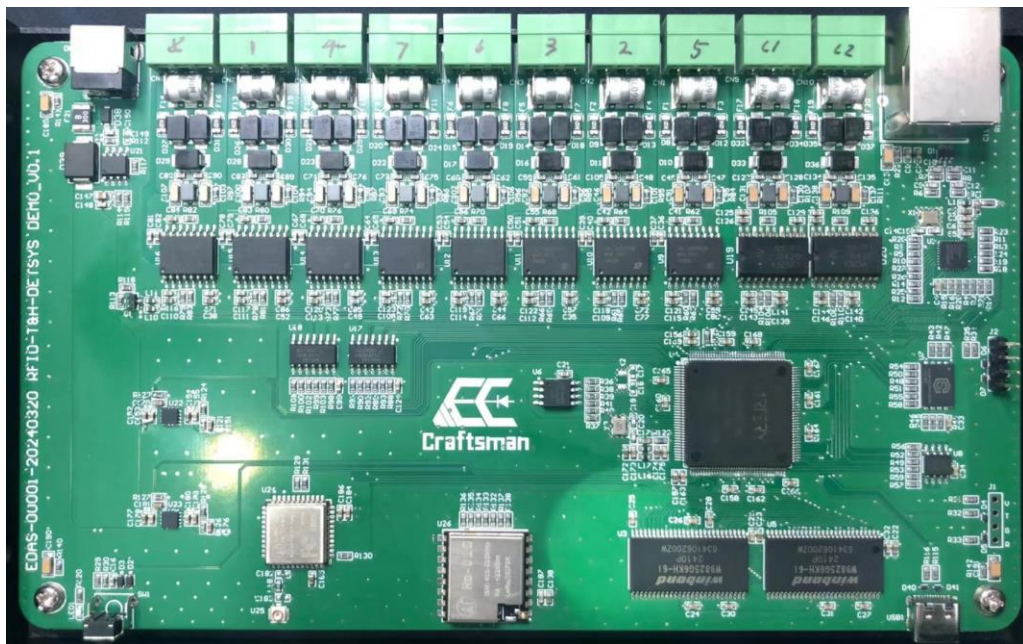
灵活组网

CAN
RS485
RS232
Lora
WIFI

自研：智能网关板卡

读卡器接口

CAN*2
RS485*8
Lora*1
WIFI*1

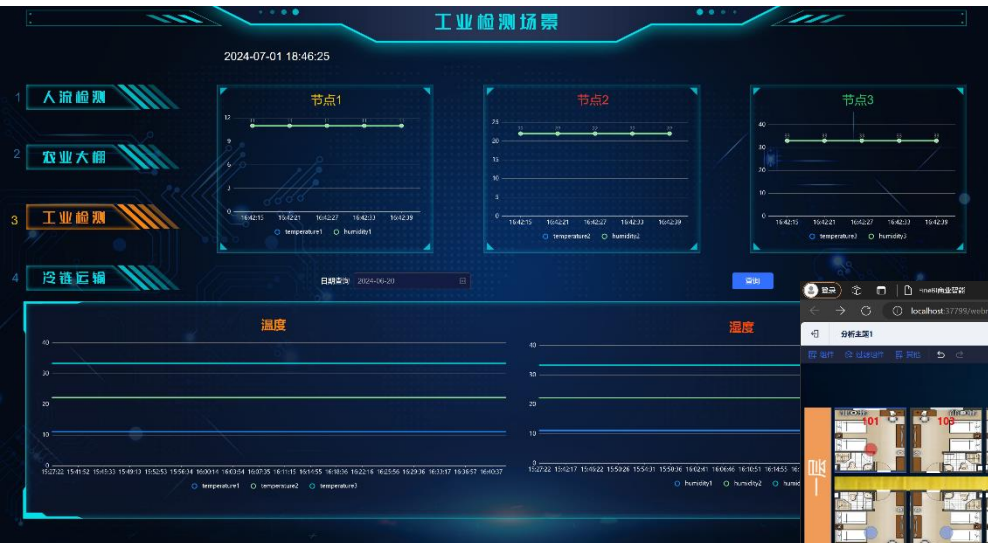


服务器接口

Ethernet*1
USB*1
WIFI*1

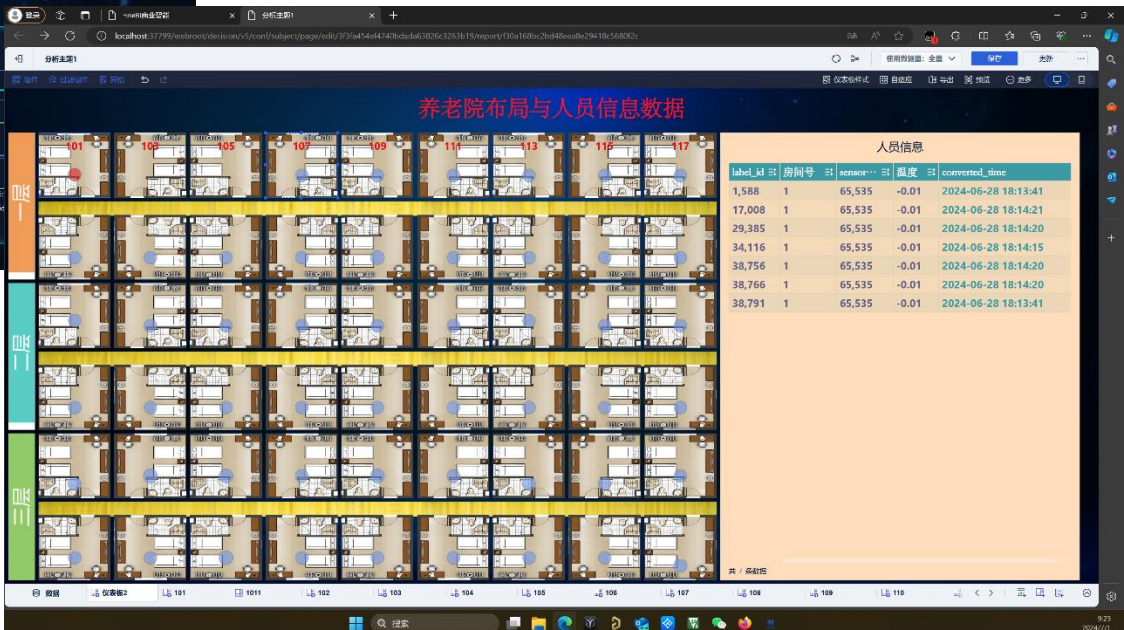
完整的支持平台

1ST-LABS



监控软件开发支持

物联网运营开发支持





Thanks !

创馨科技集团： 创业孵化及电子研发工程服务