

DATASHEET

4-port UHF RFID fixed reader

GENERAL DESCRIPTION

CT-F530 fixed reader is using MTI MS710. The Reader is designed for Industrial equipment and provides performance, reliability and security, and developer tools. The CT-F530 advances UHF RFID performance at Logistics, Warehouse, Assets/ Cargo, and Access control application.



FEATURES

- MTI MS710 reader SIP, which is used IMPINJ E710 core, embedded, with 6dbm sensitivity more than Impinj R2000 chipset
- Compliant with EPC Class1 Gen2V2 & ISO-18000-6C
- Long reading distance
- Up to 33dbm max RF output
- Up to 1000pcs tag/S
- Up to -76.5dbm RX sensitivity at 33dbm RF output power
- TCP/IP , USB control interface
- 8 GPIO, which is 4in & 4out
- Support EPC Dense Reader Mode (DRM)
- Support AUTO Reader Mode
- Support 4 mono-static with 4 reading points
- FCC(Part15.247)/CE(ETSI EN 302 208)/NCC/SRRC/JP regions supported

APPLICATION

- Logistics inventory
- Warehouse Management
- Assets/Cargo tracking
- Access control
- Baggage handling
- Large-scale RFID system implement

System

Chipset	MTI MS-710 SIP
SIP CORE	IMPINJ E710
Operation Voltage	12V~24V
DC power	0.5A at 19V
Tag read Rate	Up to 1000 Tag/S

Protocol

RFID Protocol Support	EPC Gen 2 / ISO 18000-6C
Support EPC DRM	YES, switchable

RF Feature

Frequency	860~930MHz
Demodulation	ASK/PR-ASK
Modulation Depth	90% normally
Data Encoding	FM0 or Miller
TX Output power	Up to 33dbm, 1db step
Antenna Type	4 Port Mono-static with RP-TNC
Sensitivity	-76.5dbm

Regulatory & Environment compliance

RF Certification	FCC , NCC , CE , SRRC
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Communication & Storage

USB	client x 1
Ethernet	10/100 base-T (RJ-45)
GPIO	4 digital input & 4 relay output

Environment

Environment Sealing	IEC IP53
Temperature Range	Operating: -20 °C ~ +60 °C / Storage: -40 °C ~ +85 °C
Humidity	0% ~ 95% Non-condensing

Software

Driver	Windows OS
Software SDK	.Net

GPIO PORT		NO1	CO1	NC1	NO2	CO2	NC2	NO3	CO3	NC3	NO4	CO4	NC4
		19V	GND	NC	NC	IN1	IN1G	IN2	IN2G	IN3	IN3G	IN4	IN4G
NO1	CO1	OUTPUT Relay 1											
NC1													
NO2	CO2	OUTPUT Relay 2											
NC2													
NO3	CO3	OUTPUT Relay 3											
NC3													
NO4	CO4	OUTPUT Relay 4											
NC4													
19V	19V Power Output												
GND	Power GND												
NC	Not connection												
IN1	IN1G	INPUT 1											
IN2	IN2G	INPUT 2											
IN3	IN3G	INPUT 3											
IN4	IN4G	INPUT 4											

General Characteristics

Dimensions(LxWxH)	160mm x 150mm x 43mm \pm 2mm with RP-TNC & GPIO connector
Weight	560g
Casing Material	Aluminum
Mounting	4 screw holes design
Power Source	+12V~24V (9.5W)

Update history:

Data	Rev	What	Who
2023/8/10	VER 0.85	Initial draft	PIKE Chang

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