SPEEDWORK

JT-Y2423

2.4GHz RFID Outdoor Directional Active Reader

JT-Y2423 is a self-developed high-performance 2.4GHz fixed reader. With complete independent intellectual property rights, the default operating frequency band of the reader is 2.4GHz, which has strong multi-tag recognition ability, the card reading distance is longer than other frequency band, high protection performance, and convenient installation and configuration.

SPECIFICATION

RFID Parameters

Frequency	2.4GHz~2.45GHz
Protocol	ISO18000-4-2015
Identify direction	Directional
Antenna	14dBi
Receive sensitivity	-90dBm
Recognition speed	200km/h
Communicate interface	RS232,RS485,RJ45,WG26/32/34;4G, WIFI(optional)
Transmission error rate	BER « 1X10-7
Anti-electromagnetic interference	10V/m DC – 1000MHz
IP grade	IP65
Working voltage	10~60V;PoE(optional)
Working current	0.15A@12V,25° C
I/O	2-way trigger input, 2-way relay output (optional)
SDK	DEMO&C++,C#,JAVA,Android SDK
Use Environment	
Operating Temp.	-20° C~+75° C
Storage Temp.	-40° C~+85° C
Humidity	5-90% non-condensing (+25° C)

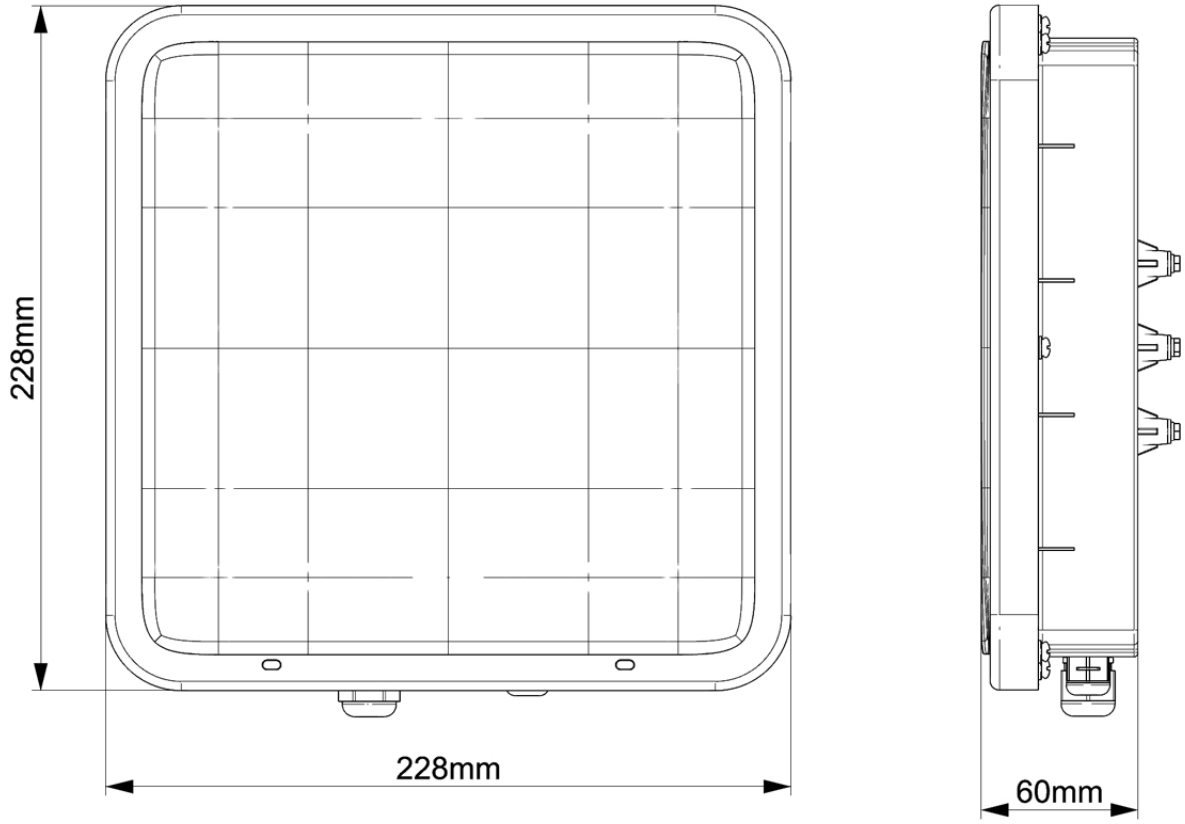
Physical Parameters

Shell material	ABS&aluminum alloy
Dimensions	228(L)*228(W)*60(H)mm
Net weight	3kg

RFID Performance Parameters

Communication rate	1Mbps(default);2Mbps(optional)
Transmit power	4dBm Max(adjustable)
Modulation	GFSK
frequency deviation	±170KHz @ 1Mbps Data Rate
Transmit power accuracy	±4dB
Adjacent channel rejection ratio 1st Channel	-25dBc @1Mbps Data Rate
2nd Channel	-50dBc @1Mbps Data Rate
Receive sensitivity	-90dBm (1Mbps Data Rate, SPEEDWORK tag packet protocol length10-bytes,BER «1E-04)
Receive carrier-to-noise ratio selectivity	9dB (1Mbps Data Rate, Co-Channel Interference)
RSSI receiving accuracy	±2dB
Effective range of RSSI reception	-90 ~ -20dBm
RSSI resolution	±1dB
Anti-collision tag reader	»200(In Co-Channel mode, RS232, RS485,RJ45, WiFi, 4G tag reader; test site: open and unobstructed area)
Secure Encryption	Supporting AES-128b/192b/256b
Reading distance	Up to 150m(Test Conditions: 1. Test with JT-T2450A 2. Test in an open field without obstacles

DIMENSIONS



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