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IOT Application Expert

Products



RFID Small-size Cart-type Tunnel Machine Product Specification

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1. Product Introduction

ROV-R101X series is an industrial-grade RFID acquisition tunnel, which is independently designed and developed by our company. It takes Radio Frequency Identification Technology as the core and combines mechanical design, multiple sensors, electromagnetic shielding, automated control and other technologies. It completely solves the problems such as tag miss-reading or reading the wrong tag in the supply chain, meeting the requirement of high efficiency and accuracy of product circulation. What's more, the tunnel combines the warehouse management system to completely overcome the shortcomings of barcode management, truly realizing the SKU automated management. And it also saves labor costs and greatly improves work efficiency.

Industry Application: The tunnel is mainly used for SKU identification, such as warehouse management of fashion, cleaning, alcohol, electric power industry, comparison of SKU tag and box label, product inventory, etc.

2. Picture



3. Product Features

- High identification efficiency: It only costs 3-5 seconds to read 200+pcs of tags.
- Professional mechanical design of antenna fully solves the problem of tag miss-reading;
- Compact electromagnetic shielding and radio frequency optimization can eliminate the harm of RF radiation to the human body, and the tag reading accuracy reaches 100% (Depends on the reading environment and performance of tags);
- The physical door can be changed to adapt to various scenes;
- Imported or domestic RFID readers can be chosen to meet the needs of different users. And we support customers to develop secondary software.

3. Specification

Main Specifications	
Air Interface Protocol	EPC Global Class1 Gen2/ISO 18000-6C
RFID Frequency	902.75MHz~927.25MHz, Channel Spacing 500kHz
Reader	Domestic (Imported R2000 chip)
Reader Output Power	1~30±1dBm
Number of Tag Reading	200+pcs
Reading Efficiency	3~5 Seconds
Reading Mode	Motionless
Operating Mode	Interval T Cycle / Continuous Operation / External Trigger
Screen	15.6-inch Resistive Touch Screen (Embedded)
Industrial Computer	J6412/8GB+128G
Antenna	4 Groups of 8dbi Antennas
Load Capacity	200KG
Opening Speed	Manual

Physical Environment	
Model Code	ROV-R101X
Overall Size (mm)	1020 (width) × 1011 (depth) × 1466(height)
Inner Size (mm)	890 (width) × 800 (depth) × 930 (height)
Maximum Passable Size of Box (mm)	850 (width) × 730 (depth) × 800 (height)
Total Weight	About 200KG
Operating Temperature	-20℃ - 60℃
Storage Temperature	-10℃~60℃
Operating Humidity	20 - 95% (Non-condensing)
Work Voltage	220VAC (± 10%) 50±3HZ
Power	150W
Enclosure Material	Spray-paint Carbon Steel
Shielding Performance	10~30CM