Technology Solutions for Retail

RFID Ceiling Antenna

CI-S43G Master



The Ci-S43G is an overhead RFID reader system designed to monitor RFID tags passing beneath it and verify them against system requirements. It mounts easily on the ceiling or door frame without complex wiring. It is mainly used for retail loss prevention, library management, asset management and similar solutions.

Features

- Supports EPC Class 1 GEN2 and ISO18000-6C protocols, 866-868Mhz CE, 902-928Mhz FCC or full frequency band.
- Built-in dual narrow-beam antenna with low VSWR and small axial ratio.
- Based on a high-sensitivity Impinj RFID chip, reads >800 tags/second.
- Built-in Debian OS with cirfid's advanced gate-system algorithm to prevent false alarms caused by nearby tags.
- Supports Master-Slave mode.
- Easy ceiling installation for unobstructed monitored access.
- Supports Ethernet, with optional 4G or Wi-Fi wireless communication.

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Technical Parameters	
Operating frequency	866-868Mhz EU; 902-928Mhz FCC; 840-960Mhz full band; other frequency bands customizable
Working protocol	EPC C1 GEN2(ISO18000-6C)
Working mode	FHSS/Fixed frequency
RF output power	0dBm~33dBm (@1dBm per step)
Antenna gain	6dBi (Circular, narrow beam)
Communication interface	RJ45 (Ethernet); Wi-Fi (Optional), 4G (Optional)
Operating system	Debian
Read distance	0~5m (installation below 2 m height recommended)
Write distance	0~1m
Operating voltage	DC 12V-24V/3A
Product dimensions	600*300*30mm
Net weight	3kg
Material	Aluminum alloy and acrylic frame
Operating temp.	-20°C~ 70° C
Storage temp.	-40°C~ 80° C
Mounting bracket	Yes

Applications

- Access control systems
- Retail store loss prevention
- Self-service pass-through systems
- Smart library systems
- Asset management systems

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