

HF+UHF Dual-Band RFID Reader/Writer



Key Features

Operating Frequency (HF+UHF)
HF 13.56MHz + UHF 860-960MHz

Engine
Module based on Impinj E310

International Standard (HF+UHF)
HF ISO/IEC 14443-A | 14443-B | 15693
UHF ISO18000-6C / EPC C1G2

R/W Range
5cm (HF) / 15cm (UHF)

1. Product Overview

This is a high-performance reader/writer with both HF and UHF reading capabilities and supports a variety of protocol standards such as ISO18000-6C, ISO14443 A/B, and ISO15693. With excellent HF and UHF reading performance, it can achieve UHF tag reading by rapid velocity and maintain a high recognition rate simultaneously. Besides, it is easy to deploy and operate by connecting its USB port to a PC without driver installation. All these make it can be widely used in various RFID applications such as logistics, access control, anti-counterfeiting and production process control.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZ-R1
Dimensions	117×117×25mm / 4.6×4.6×0.98in
Weight	170g / 6.0oz
Interfaces	USB Type-C
Cable	1.2m
Notification	LED indicator, buzzer



2.2 Power

Input Voltage	DC3.5-5.25V
UHF	5W@25dBm
HF	2W
Standby	0.4W

2.3 User Environment

Operating Temp.	-13°F to 149°F / -25°C to 65°C
Storage Temp.	-40°F to 185°F / -40°C to 85°C
Humidity	10% to 95%

2.4 UHF RFID

Engine	Module based on Impinj E310
Protocol	ISO 18000-6C, EPC C1G2
Output Power	+2dBm to +25dBm adjustable Accuracy: +/- 1dB
Antenna	Circular Polarized Antenna
Frequency	865-868MHz / 920-925MHz / 902-928MH
R/W Range	15cm

2.5 HF RFID

Protoco	ISO/IEC 14443A, ISO/IEC 14443B, ISO/IEC 15693, ISO/IEC 18000-3 mode 3, EPC class-1 HF, JIS X 6319-4
Frequency	13.56MHz
R/W Range	5cm

2.6 PSAM

Slot	1 slot
Protocol	ISO 7816 T=0, T=1



<https://www.rfidtag.com>

E-mail : sales@rfidtag.com

Phone Number: +86-131-3958-0585

Singapore Office : 10 Science Park Road #03-17A, The Alpha, Singapore Science Park, Singapore 117684

Shenzhen Office : 33-408, Qianhai SZ-HK Fund Town, Nanshan, Shenzhen, China 518052

Shenzhen Factory : Q5, XingDao Industrial Park, LongGang, Bantian, Shenzhen, China 518129