

# Alien Higgs® 4 Heat Resistant RFID On-metal Tag

AZ-H4-OMHTM-D20



## 1. Product Overview

The round heat-resistant tag is suitable for use in special industrial working scenarios. For example, automotive manufacturing, metal processing, glass manufacturing and other industrial manufacturing and outdoor infrastructure scenarios.

## 2. Product Parameters

### 2.1 Physical Characteristics

SKU	AZ-H4-OMHTM-D20	
Material	High Temperature Material	
Tag Size	Diameter 20 mm (Hole: Diameter 2 mm x2)	
Tag Thickness	2.1 mm without IC bump, 2.8 mm with IC bump	
Tag Weight	1 g	
Tag Color	Black	
IP Rating	IP68	
Mounting Methods	Adhesive, Screw	

### 2.2 Technical Parameters

Operating Frequency	865-868MHz (EU) / 902-928MHz (US)	
Communication Protocol	EPC Class1 Gen2, ISO18000-6C	
Applicable Surface	Metal Surfaces	
Read Range (Fix Reader)	865-868MHz (EU): 2.7m	902-928MHz (US): 2.5m
Read Range (Handheld Reader)	865-868MHz (EU): 1.4m	902-928MHz (US): 1.2m



## Key Features

<b>Frequency Band</b> 865-868MHz (EU) / 902-928MHz (US)
<b>Chip</b> Alien Higgs® 4
<b>International Standard</b> EPC Class1 Gen2, ISO18000-6C
<b>EPC memory</b> 128 Bits
<b>User memory</b> 128 Bits
<b>IP Rating</b> IP68
<b>High-Temperature Resistant</b> 180 °C for 10 hours
<b>Max. Read Range</b> 2.7m on metal

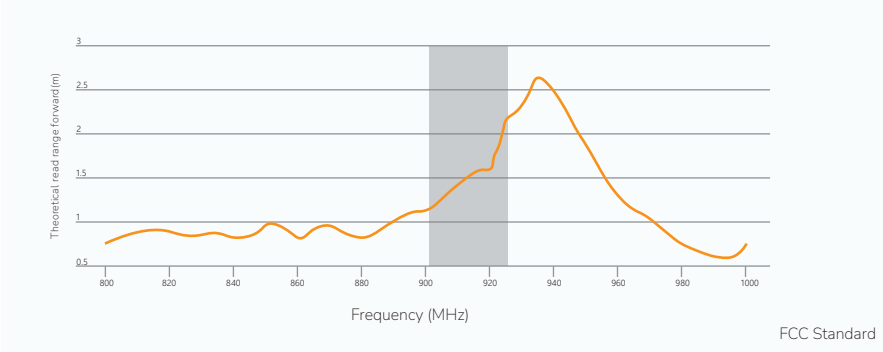
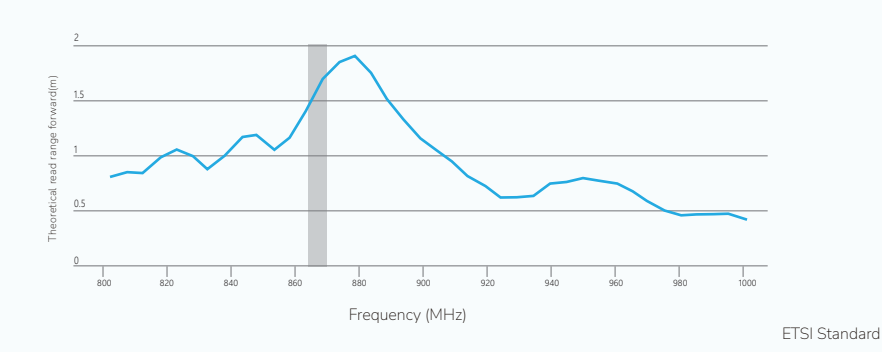
2.3 Chip Characteristics

Chip Manufacturer	Alien®
Chip Family	Alien Higgs®4
Write Cycles [typical cycles]	100 000
Data Retention [years]	Up to 50
EPC Memory	128 Bits
User Memory	128 Bits
TID Memory	64 Bits
Quick Write™ High Speed Chip	Support
Blast Write™ Mass Programming	Support
Dynamic Authentication™Anti-counterfeit Technology	Support

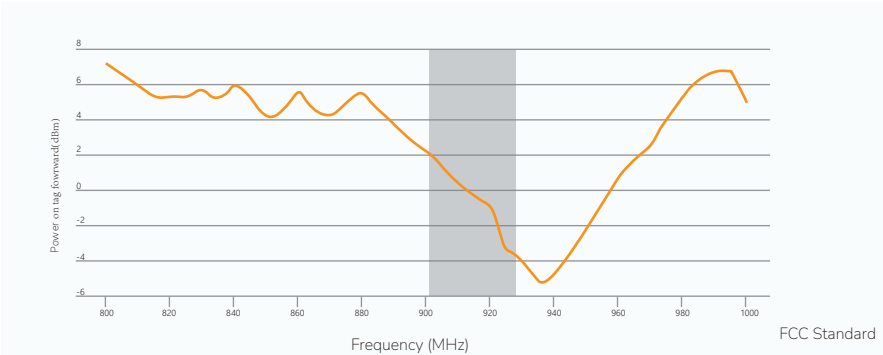
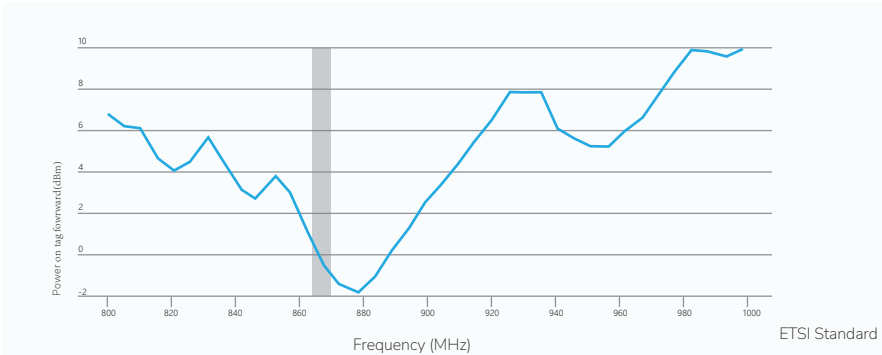
2.4 Additional Information

Storage Environment	-55°C to +200°C (+280°C for 50 minutes, +250°C for 150 minutes)
Operating Environment	-40°C to +150°C (working 10 hours in 180°C)

Reading range under different frequency



Tag power under different frequency



<https://www.rfidtag.com>

E-mail : [sales@rfidtag.com](mailto: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