

Alien Higgs® 4 Heat Resistant UHF On-Metal Tag

AZ-H4-OMHTM-4215



1. Product Overview

The heat resistant UHF on-metal tag is a robust and versatile device. Its robust heat-resistant material construction and IP68 compliance ensure reliable performance in harsh environments. The tag is equipped with the Alien Higgs® 4 chip, enabling it to be used for various applications such as asset tracking, inventory management, and supply chain optimization.

2. Product Parameters

2.1 Physical Characteristics

| | |
|------------------|---|
| SKU | AZ-H4-OMHTM-4215 |
| Material | Heat Resistant Material |
| Tag Size | 42x15mm (Hole: D4mmx2) |
| Tag Thickness | 2.1mm without IC bump, 2.8mm with IC bump |
| Tag Weight | 3.5 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): 7m on metal, 3.5m off metal; 902-928MHz (US): 6.8m on metal, 4m off metal |
| Read Range (Handheld Reader) | 865-868MHz (EU): 5.5m on metal, 2.2m off metal; 902-928MHz (US): 5.3m on metal, 2.7m off metal |



Key Features

| | |
|-------------------------------|-----------------------------------|
| Frequency Band | 865-868MHz (EU) / 902-928MHz (US) |
| Chip | Alien Higgs® 4 |
| International Standard | EPC Class1 Gen2, ISO18000-6C |
| User Memory | 128 Bits |
| EPC memory | 128 Bits |
| IP Rating | IP68 |
| High-Temperature Resistant | 150 - 180 °C |
| Max. Read Range (2W ERP FCC) | 6.8m on metal, 4m off metal |
| Max. Read Range (2W ERP ETSI) | 7m on metal, 3.5m off metal |

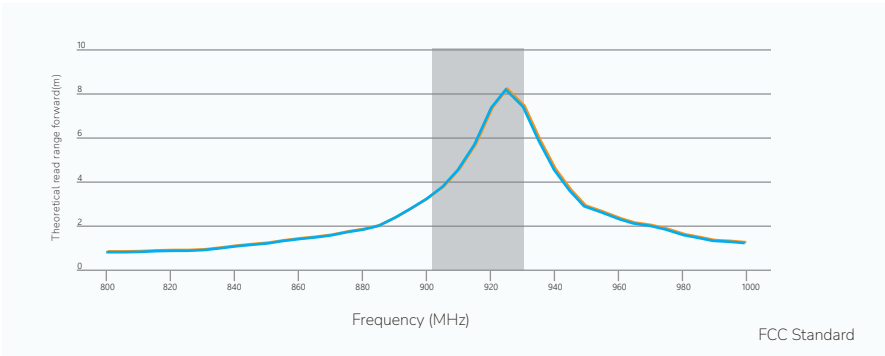
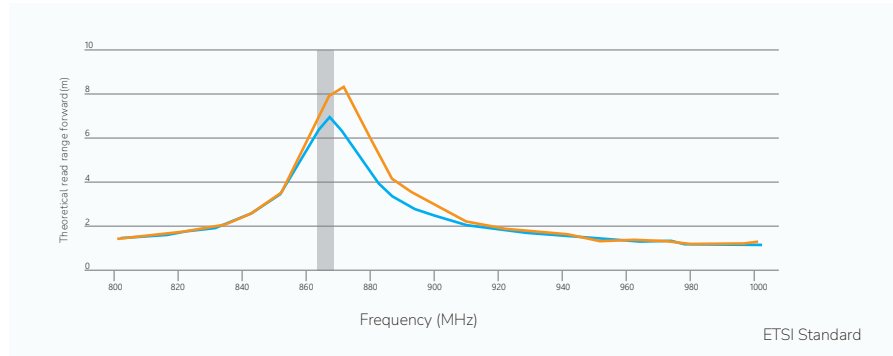
2.3 Chip Characteristics

| | |
|-------------------------------|----------|
| Chip Manufacturer | Alien |
| Chip Family | 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 |
| QuickWrite™ | Yes |
| BlastWrite™ | Yes |

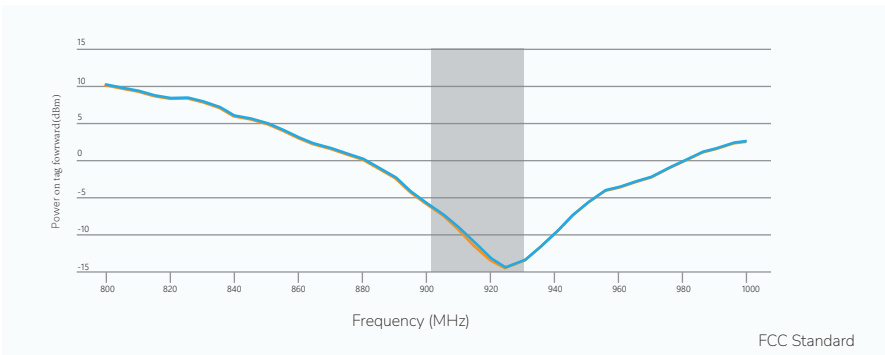
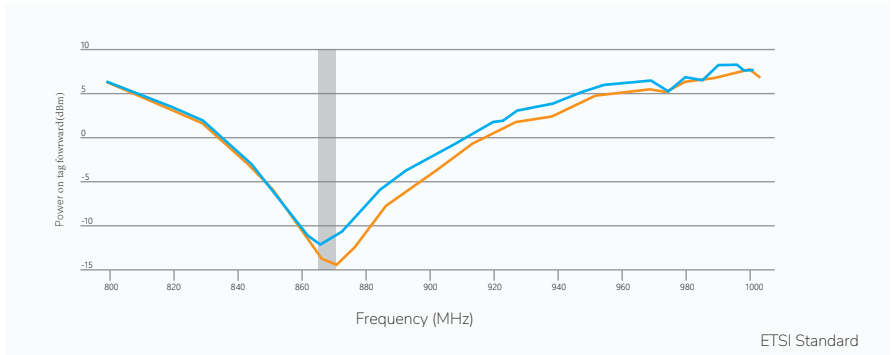
2.4 Additional Information

| | |
|-----------------------|---|
| 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 in 180°C for 10 hours) |

Reading range under different frequency



Tag power under different frequency



<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