

Alien Higgs® 3 Heat Resistant RFID On-Metal Tag

AZP-H3-OMPPS-2626



1. Product Overview

This square heat-resistant tag is suitable for use in working scenarios in the petrochemical industry. It can be used in environments containing mineral oil, petroleum, salt mist, and vegetable oil.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZP-H3-OMPPS-2626	
Material	PPS Shell, PCB Antenna	
Tag Size	26*26mm (Hole: Diameter 2 mm x2)	
Tag Thickness	5.5 mm	
Tag Weight	6.6 g	
Tag Color	Black	
IP Rating	IP68	
Mounting Methods	Adhesive, Screw, Binding	

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): 902-928MHz (US):	2.5m on metal, 1.2m off metal; 2.6m on metal, 1.3m off metal
Read Range (Handheld Reader)	865-868MHz (EU): 902-928MHz (US):	1.5m on metal, 0.9m off metal; 1.9m on metal, 1m off metal



Key Features

Frequency Band 865-868MHz (EU) / 902-928MHz (US)
Chip Alien Higgs® 3
International Standard EPC Class1 Gen2, ISO18000-6C
EPC memory 480 Bits
User memory 512 Bits
IP Rating IP68
High-Temperature Resistant 100 °C
Max. Read Range 2.6m on metal, 1.3m off metal

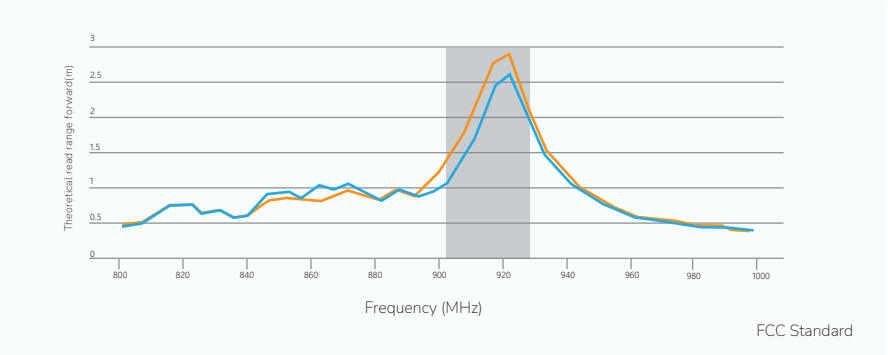
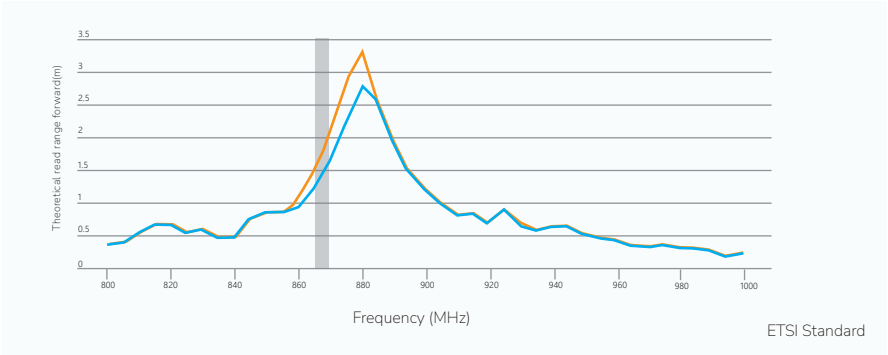
2.3 Chip Characteristics

Chip Manufacturer	Alien®
Chip Family	Alien Higgs®3
Write Cycles [typical cycles]	100 000
Data Retention [years]	Up to 50
EPC Memory	480 Bits
User Memory	512 Bits
TID Memory	64 Bits
Dynamic Authentication™ Protection	Support
Permanently Lock User Memory	Support
Mandatory And Optional Command Adaptation	Support

2.4 Additional Information

Storage Environment	-40°C to +100°C (+230°C for 30 minutes, +180°C for 120 minutes)
Operating Environment	-40°C to +100°C
Withstands Environment	Fuel B, mineral oil, petroleum, salt mist, vegetable oil

Reading range under different frequency



Tag power under different frequency

