

NXP UCODE® 8 Heat Resistant RFID On-Metal Tag

AZ-U8-PEEK-4015



1. Product Overview

This special tag is suitable for use in extremely high-temperature working scenarios. It can withstand high temperatures up to 260°C and is suitable for use in harsh scenarios such as industrial manufacturing and outdoor infrastructure operations. Such as automobile manufacturing, metal processing, glass manufacturing, etc.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZ-U8-PEEK-4015
Material	PEEK
Tag Size	40.0*15.0 mm (Hole: Diameter 2.5 mm x2)
Tag Thickness	10 mm
Tag Weight	6 g
Tag Color	Black
IP Rating	IP68
Mounting Methods	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)	6m on metal, 1.7m off metal
Read Range (Handheld Reader)	3m on metal, 1.2m off metal



Key Features

Frequency Band 865-868MHz (EU) / 902-928MHz (US)
Chip NXP UCODE® 8
International Standard EPC Class1 Gen2, ISO18000-6C
EPC memory 128 Bits
IP Rating IP68
High-Temperature Resistant 260°C
Max. Read Range 6m on metal, 1.7m off metal

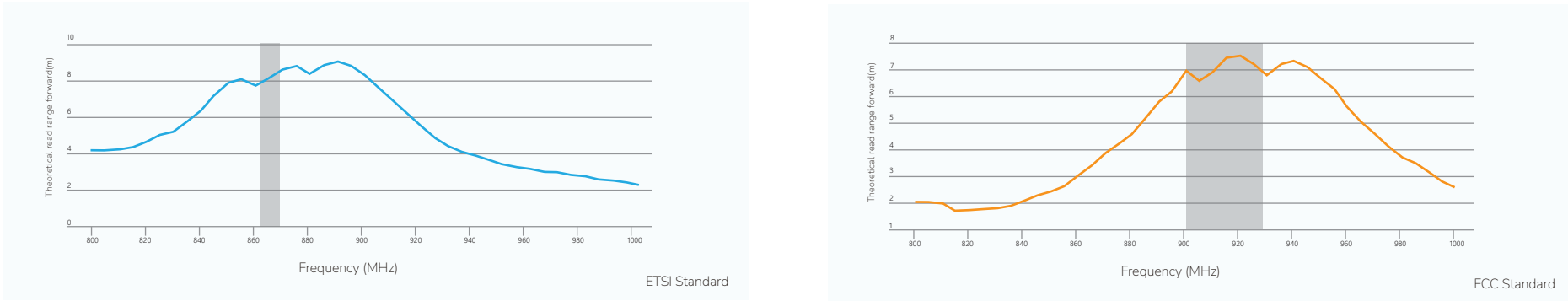
2.3 Chip Characteristics

Chip Manufacturer	NXP
Chip Family	NXP UCODE® 8
Write Cycles [typical cycles]	100 000
Data Retention [years]	Up to 50
EPC Memory	128 Bits
User Memory	0 Bits
TID Memory	96 Bits
(Perma) LOCK™	Support
Kill Command	Support
EAS Tag Alternative Function	Support
Tag Performance Optimization	Support
Autocorrect Memory Protection	Support
Authenticity Certification	Support

2.4 Additional Information

Storage Environment	-40°C to +260°C (+300°C for 100 hours)
Operating Environment	-40°C to +150°C

Reading range under different frequency



Tag power under different frequency

