

# NXP UCODE®8 Heat Resistant RFID On-metal Tag

AZP-U8-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-U8-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                    |



## Key Features

|   |
|---|
| <b>Frequency Band</b><br>865-868MHz (EU) / 902-928MHz (US)    |
| <b>Chip</b><br>NXP UCODE®8                                    |
| <b>International Standard</b><br>EPC Class1 Gen2, ISO18000-6C |
| <b>EPC memory</b><br>128 Bits                                 |
| <b>IP Rating</b><br>IP68                                      |
| <b>High-Temperature Resistant</b><br>100 °C                   |
| <b>Max. Read Range</b><br>2.6m on metal, 1.3m off metal       |

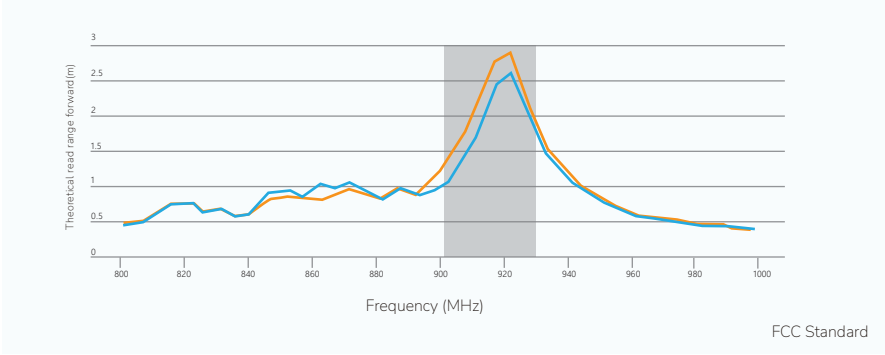
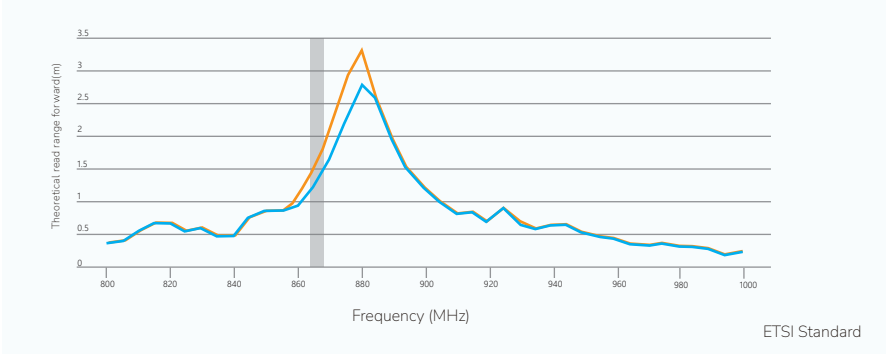
2.3 Chip Characteristics

|                               |             |
|-------------------------------|-------------|
| 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     |

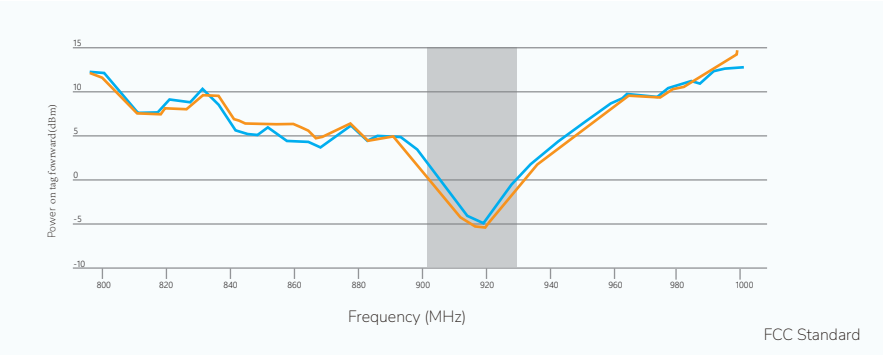
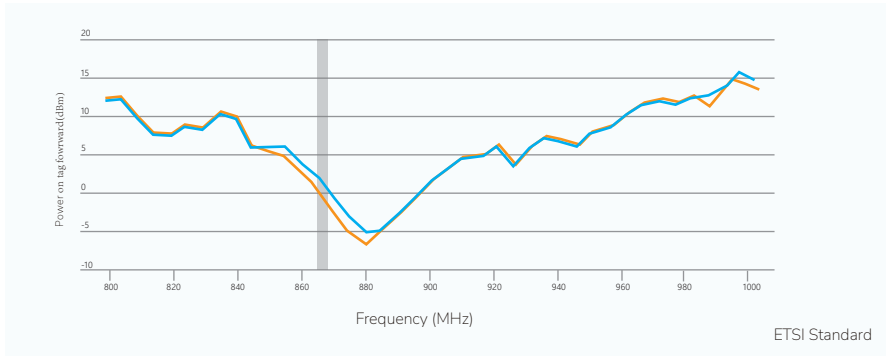
2.4 Additional Information

|                        |   |
|------------------------|---|
| Storage Environment    | -40°C to +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



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