



AZ-H81

Arizon RFID Technology, 100% owned by YFY Group, is a leading company to provide first-class manufacturing services of inlays / tags / tickets and cards for worldwide RFID industry. By 2012 Arizon has produced and delivered more than 1 billion inlays / tags and the number is 10 billion pcs by Apr. of 2019, all products conform to highest quality standards in HF and UHF technology for its valuable customers. Arizon has established inlay/label monthly capacity up to 300 million pieces by 2018, and will continue its strong investments to further boost its monthly production capacity for satisfying the market's fast growing needs.

## Overview

### Operating Frequency

860MHz-960MHz

### Integrated Circuit(IC)

NXP UCODE8

### Antenna Size

70x15mm

2.756x0.591inch

### Protocol

EPC Class1 Gen2

ISO/IEC 18000-6C

### Application Areas

Brand Protection

Industry

Supply Chain Management

Retail/Liquid label

## Electrical Characteristics

### Antenna

### AZ-H81

#### Base Material

PET

### IC

### NXP

### UCODE8

### UCODE8m

#### Memory

EPC:	128Bits	96Bits
User:	0Bits	32Bits
TID:	48Bits	48Bits
Unique TID:	48Bits	48Bits
Access Password:	32Bits	32Bits
Kill Password:	32Bits	32Bits

#### IC Life

100,000 Programming cycles

50 years data retention

#### Operating Mode

Passive

#### Frequency

860 ~ 960MHz

#### Standards

ISO 9001:2008

ISO 14001:2004

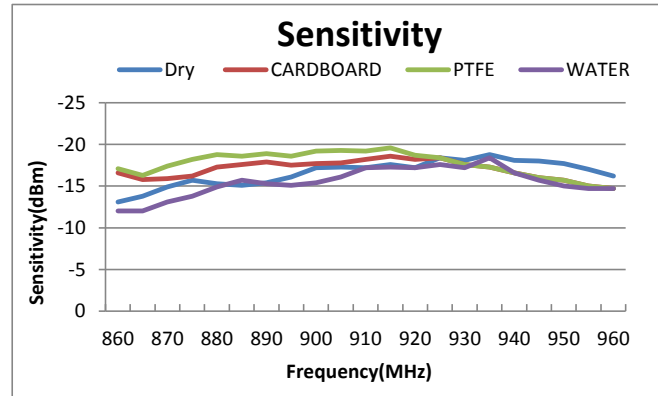
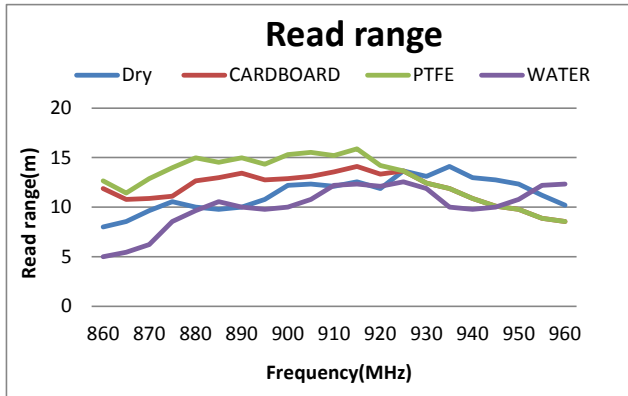
OHSAS 18001:2007





Arizon RFID Technology Co., Ltd.

## Frequency Sweep

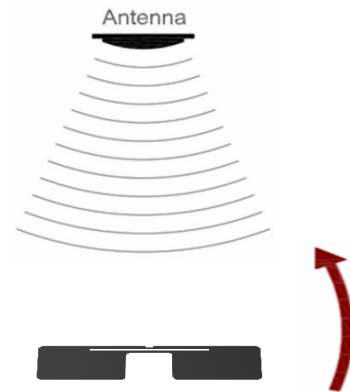
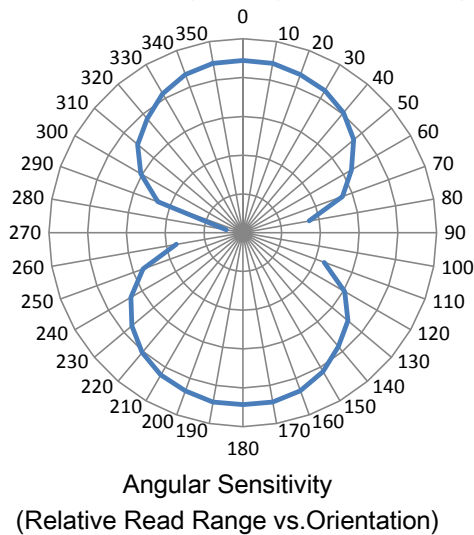


Test power : 4W EIRP

For countries that allow 2W ERP, please reduce the result by 11%

## Radiation Patterns

Angular Sensitivity ( dBm ) ; Power step 0.1dB ; Angle step 10°



Angular Sensitivity

Inlay is rotated in the x,y axis, fixed in z axis  
(Tag shown at 0° with respect to face of antenna)

## Usage Method



Arizon RFID Testing Center:

RFID UHF Band: 800-1000MHz; Shielding effectiveness: > 100 dB; Background noise: < -75 dB

Compatible to the following international standard:

EPC Global Class1 Gen2; ISO 18000-6C; GS1 TIPP (Tagged Item Performance Protocol )