

# ALIEN Higgs®3 CR80 RFID Card



## Key Features

**Operating Frequency**  
UHF 840-960 MHz

**Chip Type**  
ALIEN Higgs®3

**International Standard**  
ISO/IEC 18000-6C, EPC Global Class 1 Gen 2

**User Memory**  
512 bits

**UID**  
64 bits

## 1. Product Overview

The Higgs®3 RFID card is made from photo-quality PVC sheets in CR80 size. It conforms to the EPC Global Class 1 Gen 2 specifications and is a highly integrated single-chip UHF RFID Tag IC with 800-bit memory.

## 2. Product Parameters

### 2.1 Physical Characteristics

SKU	AZC-HIG3-CR80
Material	Black Core PVC, White Core PVC, White Core PET (WEEE Directive✓) White Core ABS (WEEE Directive✓) , Wooden (WEEE Directive✓)
Dimension	85.6x54x0.88mm   3.37"x2.125"
Net Weight	About 5.8g
Surface Treatment	Glossy, Matte or Frosted
Personalized Printing(NA for Wooden Cards)	Thermal Transfer/Dye Sublimation
Customization options (NA for Wooden Cards)	Pre-Printing, Barcode Printing, Embossing, Holograms, Signature Panels, UV Printing, Hot Stamping, Punch Holes



## 2.2 Technical Parameters

Operating Frequency	840-960 MHz
Communication Protocol	ISO/IEC 18000-6C, EPC Global Class 1 Gen 2
Operating Distance	Up to 10m

## 2.3 Chip Characteristics

Chip Manufacturer	ALIEN
Chip Type	Higgs®3
User Memory [bit]	512
Nonvolatile Memory [bit]	800
UID [bit]	64 (unalterable serial number)
EPC Memory [bit]	96-EPC Bits extensible to 480 Bits
Access and Kill Passwords [bit]	32
Read Sensitivity [dBm]	-15.8
Write Sensitivity [dBm]	-11.3
Write Endurance [typical cycles]	100,000
Data Retention [years]	50

## 2.4 Additional Information

Application	Distribution Logistics, Supply Chain Management, Asset Inventory and Tracking, Baggage Handling and Tracking
Storage Environment	Temperature 0°C~50°C, Humidity 20%~90%
Operating Environment	Temperature 0°C~50°C, Humidity 20%~90%
Care Tips	<ol style="list-style-type: none"> <li>1. Avoid excessive bending</li> <li>2. Keep away from water</li> <li>3. Store in cool and dry place</li> </ol>
Cleaning Tips	<ol style="list-style-type: none"> <li>1. Use a soft, dry cloth</li> <li>2. Avoid harsh chemicals or abrasive cleaners</li> <li>3. Remove stains immediately</li> </ol>

## 2.5 Packaging

Packing Format	Single pieces, piece by piece
Packing Quantity	200 pcs/case, G.W. : 1.26 kg
Packing Method	1000 pcs or 2000 pcs/carton
Carton Dimension	1000 pcs: 23x20x17cm (G.W.: 6.3 KG); 2000 pcs: 48x23x14cm (G.W.: 12.6 KG).



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