



SKU:	RS-HIG3-CR80
Chip Type:	Alien® Higgs® 3
Frequency:	UHF 860-960 MHz
Protocol:	ISO/IEC 18000-63, EPC Class 1 Gen 2
User Memory:	512 bits
EPC Memory:	96-EPC Bits Extensible to 480 bits
UID Memory:	64 bits
Read Range:	Up to 10 m
Industry:	Access Control, Events, Transportation
Applications:	Public Transportation, Event Ticketing, Loyalty System, Retail Item Level Tagging, Product Authentication, Supply Chain Management, Asset Inventory and Tracking, Vehicle Tracking, Baggage Handling and Tracking

Alien® Higgs® 3 RFID Card

The Alien® Higgs® 3 CR80 RFID Card combines durable photo-quality PVC construction with high-performance UHF technology, providing reliable identification across a variety of applications. Sized to CR80 standards, these cards support both blank and customized printing, making them compatible with most direct thermal and thermal transfer card printers. Fully compliant with EPC Class 1 Gen 2 specifications, the Higgs® 3 features a highly integrated single-chip UHF RFID IC with 800-bit memory, including 96 EPC bits (extensible to 480 bits), 512 user bits, a 64-bit unique TID, and secure access and kill passwords, ensuring secure and versatile performance.

Designed for efficiency and accuracy, the Higgs® 3 CR80 card delivers fast read/write cycles and robust anti-collision capabilities, allowing multiple cards to be processed simultaneously. Its reliable serialization and consistent performance make it suitable for retail item-level tagging, product authentication, supply chain management, asset tracking, and access control. With professional-grade construction and flexible printing options, the Higgs® 3 offers a scalable, durable UHF RFID solution for businesses requiring dependable, high-performance card deployments.

Physical Information	Material	Black Core PVC, White Core PVC, White Core PET (WEEE Directive✓), White Core ABS (WEEE Directive✓), Wooden (WEEE Directive✓)
	Card Size	86×54×0.88 mm (3.4"×2.2")
	Operating Environment	-20°C~+50°C, 20%~80% RH
	Storage Environment	+18°C~+28°C, 20%~90% RH
	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
	Care Tips	1. Avoid excessive bending 2. Keep away from water 3. Store in cool and dry place
Cleaning Tips		1. Use a soft, dry cloth 2. Avoid harsh chemicals or abrasive cleaners 3. Remove stains immediately

Technical Information	Operating Frequency	860~960 MHz
	Communication Protocol	ISO/IEC 18000-63, EPC Class 1 Gen 2
	Chip Type	Alien® Higgs® 3
	User Memory	512 bits
	EPC Memory	96~480 bits
	UID Memory	64 bits
	Operating Distance	Up to 10 m
	Write Endurance	100,000 times
	Data Retention	50 years
	Security Feature	32 bit Password

Packaging Information	Packing Format	Single pieces, piece by piece
	Packing Quantity	200 pcs/case, G.W. : 1.3 kg
	Packing Method	1000 pcs or 2000 pcs/carton
	Carton Dimension	1000 pcs: 23×20×17 cm (G.W.: 7 KG); 2000 pcs: 48×23×14 cm (G.W.: 13 KG).

● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.
 ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage.
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