

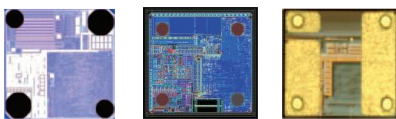


Product Catalog

Trusted Performance™

Alien is one of the industry's most experienced, quality suppliers of RFID innovations, technologies and products.

Alien Technology is one of the leaders and innovators in the global UHF Gen-2 RFID industry, which specializes in delivering *Trusted Performance™* to customers.



RFID chips

High performance in read/write

- *Sentinel™* Memory error identification and correction effectively
- Network access of external devices and deployment simplification
- Blast *Write™* and Quick *Write™* supportive of batch encoding
- Chips precoding

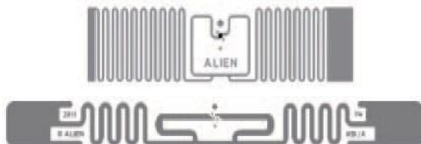
Readers



Deployment simplification, the industry's respected reader

- High read/write performance
- Leading robustness, Intelligence & Security
- Suitable for large-scale market storage infrastructure
- Protocol (& ALR-F800/RZR-H220 LLRP)

IDENTIFICATION **IoT** *Of Things™* Inlay / Tag / Label / Service



World-class industry-leading performance tag family

- Stable function *Squiggle™* tags
- Specialized tag in retail, transportation, biological and safety
- Form factor specific and authorization
- Tailored tags



Respected Academy training

- Centralized and on-site training
- RFID solution fitting retail, logistic
- Training center in US, UN and China
- Feasibility analysis, system design & test

Alien Technology has proven to be the trusted supplier of EPCglobal Gen2 and ISO/IEC 18000-6C compliant UHF passive RFID transceiver chips, tags, inlays & labels, fixed & mobile readers and related professional services for item tagging, retail/apparel, transportation, life sciences and many other applications.



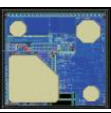


Service


Alien offers a diverse range of professional services, including globally certified Alien RFID Academy training, on-site customer training, site surveys, feasibility analysis and recommendations.



For more information, please contact: lihuaz@alientechnology.com

Higgs™ Family

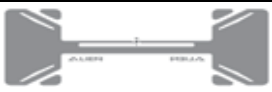

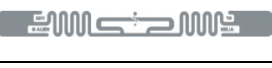
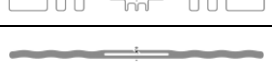











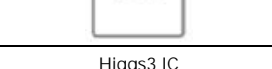
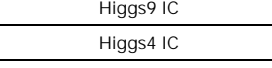
Category	EPC Memory (bits)	User Memory (bits)	UTID	Reading Sensitivity (dBm)	Writing Sensitivity (dBm)	Application
Higgs 3 	96-480	up to 512	64	-20	-13.5	General purpose, apparel, automated vehicle identification (AVI), automotive, luggage, books, boxes, documents, ID cards, item-level labels, trademarks, shopping cards, pharmaceuticals, tool boxes, retail, etc.
Higgs 4 	128	128	64	-20.5	-17	
Higgs EC 	128	128	48	-21.5	-18	
Higgs 9 	96-496	up to 688	48	-21.5	-19	
Higgs 10 	16-128	32	48	-21.5	-19	

Model	Type	Operation system	GPIOs	Protocol	Applications
ALR-F800 	Fifth Generation Enterprise-grade fixed 4-port	Linux	4 inputs/8 outputs (Optically isolated/open collector)	ARP/LLRP Alien Readers' protocol	Reliable enterprise-grade applications such as warehouses, retail, trucking, and supply chain management. Industry-leading Power over Ethernet (PoE) transmission power and performance












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Alien Inlay Family

Category	Model	Product	Size		Application
			Antenna	Inlay	
TREAD	ALN-9874 ALN-10074		80mm x 40mm	83.2mm x 43.2mm	automotive tirelabels, plastic totes, ceramics, small glass objects
G	ALN-9954 ALN-9654		93mm x 19mm	96.5mm x 23.2mm	automotives, small glass objects, trolley, Marathon
Squiggle	ALN-9940 ALN-9840 ALN-10040		95mm x 8mm	98.2mm x 12.3mm	cases pallet placards, Trolley
DOC	ALN-9841 ALN-10041		95mm x 8mm	98.4mm x 12.3mm	multi-layer labels, books
Slimline	ALN-9745		94mm x 5.8mm	97.2mm x 9mm	multi-layer labels, books
Squiglette	ALN-9930 ALN-9830 ALN-10030		70mm x 9.5mm	73mm x 12.7mm	cases, pallet placards
SH	ALN-9962 ALN-9862 ALN-10062		70mm x 17mm	73.5mm x 21.2mm	cases, pallet placards, coupon, cards
Express	ALN-9835		70mm x 12.7mm	73mm x 15.7mm	cases, pallet placards
GT	ALN-9828 ALN-9828-90R ALN-10028		50mm x 30mm	53mm x 33mm	apparel tags
Squig	ALN-9610 ALN-9710		44.5mm x 10.4mm	47.5mm x 13.4mm	accessory labels
HS	ALN-9720 ALN-10020		40mm x 15.5mm	44.4mm x 19mm	Horizontal and vertical apparel tags
Gecko	ALN-9825 ALN-10025		29mm x 15mm	32mm x 18mm	accessory labels
GLINT	ALN-9715 ALN-10015		27mm x 9.7mm	30mm x 12.9mm	Jewelry, accessory labels
Pearl	ALN-9816		22mm x 12.5mm	25mm x 15.5mm	Jewelry, accessory labels
Bio	ALN-9714		17mm x 15mm	20mm x 18mm	bottles pharma, specimen
Square	ALN-9929		22.5x22.5mm	25.5x25.5mm	asset, Apparel, Retail
SIT	ALN-9613 ALN-9713		12mm x 9mm	19mm x 13mm	bottles
Note:	ALN-96xx	Higgs3 IC	(EPC Memory: 96 bits - 480 bits User Memory: 128 bits - 512 bits)		
	ALN-99xx	Higgs9 IC	(EPC Memory: 96 bits - 496 bits User Memory: 688 bits - 192 bits)		
	ALN-97xx	Higgs4 IC	(EPC Memory: 96 bits - 128 bits User Memory: 128 bits)		
	ALN-98xx	HiggsEC IC	(EPC Memory: 96 bits - 128 bits User Memory: 128 bits)		
	ALN-100xx	Higgs10 IC	(EPC Memory: 96 bits - 128 bits User Memory: 32 bits)		



Inlays: Higgs 10

Category	Model	Product	Size		Applications
			Antenna	Inlay	
TREAD	ALN-10074		80mm x 40mm	83.2mm x 43.2mm	automotive tirelabels, plastic totes, ceramics, small glass objects
Squiggle	ALN-10040		95mm x 8mm	98.2mm x 12.3mm	cases, pallet placards, Trolley
DOC	ALN-10041		95mm x 8mm	98.4mm x 12.3mm	multi-layer labels, books
Squiglette	ALN-10030		70mm x 9.5mm	73mm x 12.7mm	cases, pallet placards
SH	ALN-10062		70mm x 17mm	73.5mm x 21.2mm	cases, pallet placards, coupon, cards
GT	ALN-10028		50mm x 30mm	53mm x 33mm	Horizontal and vertical apparel tags
HS	ALN-10020		40mm x 15.5mm	44.4mm x 19mm	Horizontal and vertical apparel tags
Gecko	ALN-10025		29mm x 15mm	32mm x 18mm	accessory labels
GLINT	ALN-10015		27mm x 9.7mm	30mm x 12.9mm	Jewelry, accessory labels
Note:	ALN-100xx	Higgs10 IC	(EPC Memory: 96 bits - 128 bits User Memory: 32 bits)		



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