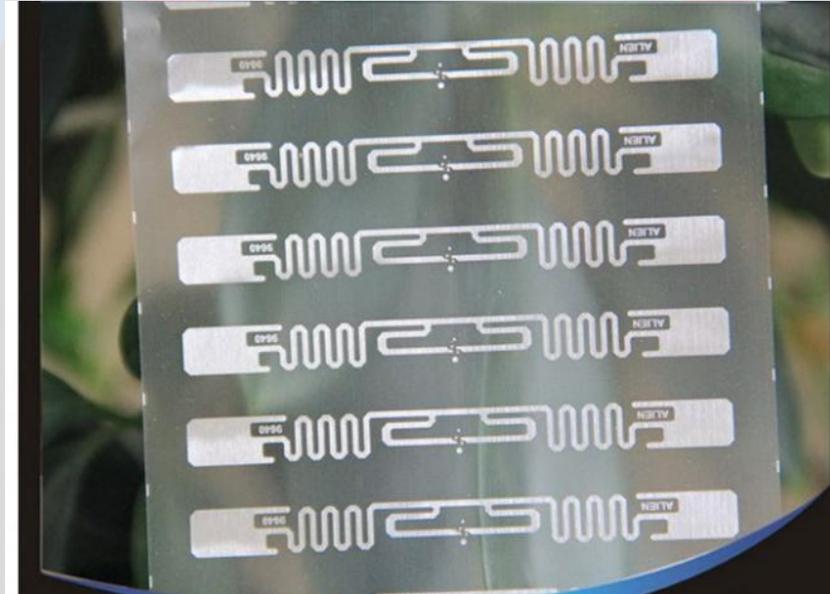


## RFID Label (Alien 9640)

### Model Number: Alien 9640



#### **General Description:**

Powered by Alien's break-through Higgs 3 UHF RFID IC and innovative Squiggle antenna design, the ALN-9640 delivers industry leading EPC Gen 2 performance and reliability at competitive prices. ALN-9640 inlays are World Tag compliant, enabling consistent operation across the diverse frequencies of the Americas, Europe, Middle East, Asia, and Africa. With its Higgs-3 core, the Squiggle delivers unprecedented performance and a rich feature set including a 32-bit TID, a 64-bit Unique TID for authentication and serialization applications, an extensible EPC memory bank, 512-bits of user memory for distributed data applications, and password protected read and write support capabilities to prevent unauthorized viewing and modification of the tag's data. Typical applications for the Squiggle include, but are not limited to, corrugate cases, pallet placards, apparel hang tags, baggage tags, shipping labels, asset management, and file folder labels

#### **Network Toll Solution Pvt. Ltd**

Corporate Office: Unit No. 1008, Tower 3, Aastha Green, Sector 4, Greater Noida West, 201306  
Website: [www.networktoll.com](http://www.networktoll.com) Email: [sales@networktoll.com](mailto:sales@networktoll.com) Contact: +919289757018

### Features:

- EPC Gen 2 (v1.2.0) compliant.
- ISO/IEC 18000-6C compliant
- Worldwide RFID UHF operation (840-960MHz)
- Higgs - 3 IC with 800-bits of Nonvolatile Memory – 32-bit TID – 64-bit Unique TID – 96-bit EPC Memory.
- Extensible to 480-bits – 512-bit User Memory – 32-bit Access password – 32-bit Kill password
- Pre-programmed with a unique, unalterable 64-bit serial number (ideal for authentication)
- User Memory can be Block or Locked
- User Memory can be Read Password protected in 64-bit blocks, prohibiting unintended Reads without an access password
- Supports all Mandatory and Optional Gen 2 commands including item level commands
- Custom commands for high speed programming
- Available in high-yield, high-capacity dry /wet inlay rolls for high volume converting processes

### Application

- Corrugate cases
- Pallet cards
- Apparel hang tags
- Baggage tags
- Asset management
- File folder labels
- Shipping labels

### Technical Specifications:

#### Wet Inlay

- Inlay Width 3.866" [98.2 mm]
- Inlay Length 0.484" [12.3 mm]
- Web Width 3.992" [101.4 mm]
- Web Pitch 0.625" [15.875 mm]
- Core Width 4.752" [120.7 mm]
- Core ID 6" [152.4 mm]\*
- Core Material Fiberboard
- Inlays per Roll 20000 Nominal

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- Maximum Roll OD < 16" [406.4 mm]
- Roll Labeling Data Roll #, Quantity
- White (-FWRWA) TT Printable White Film Overlay
- Overlay Adhesive (-FWRWA) General Purpose Permanent
- Inlay Adhesive General Purpose Permanent
- Adhesive Application
- Temperature > +25°F [-4°C]
- Adhesive Service
- Temperature -40°F to +200°F [-40°C to +93.3°C]
- Release Liner 40# SCK

#### RFID

- Protocols Supported ISO/IEC 18000-6C EPC global Class 1 Gen 2
- Integrated Circuit Alien Higgs-3
- EPC global Certificate 950110126000001084
- Operating Frequency 840–960 MHz
- EPC Size 96 - 480 Bits
- User Memory 512 Bits TID 32 Bits Unique TID 64 Bits Access Password 32 Bits Kill Password 32 Bits

#### Environment

- Shelf Life 2 years at +77°F [+25°C] @ 40%RH
- Recommended Storage +77°F [+25°C] @ 40% RH
- Storage Limits -13°F to 122°F [-25°C to +50°C] 20% to 90% RH Non-condensing
- Operating Limits -40°F to +158°F [-40°C to +70°C] 20% to 90% RH Non-condensing
- Bend Diameter > 1.97" [50mm]
- Pressure < 5N/mm<sup>2</sup>
- Drop Resistance Per ASTM D5276
- Write Cycles 100,000 @ 25°C
- RoHs 2002/95/EC, 2005/618/EC, 2011/65/EU Compliant
- REACH 1907/2006/EC Compliant (SVHC and ECHA)
- ESD Limit– HBM / CDM 5.0kV / 1.5kV

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