

## Vehicle Transponder

### Applications

- Electronic Toll Collection
- Electronic Vehicle Registration
- Parking and Access Control
- Vehicle Emissions Inspection
- Fleet Management
- Proof of Insurance



Solana™

### Product Description

Solana is a unique passive transponder that can be mounted on either a vehicle's windscreen or headlamp. Most passive transponders are tuned to either Windscreen (Glass) or Headlamp (Plastic), which requires different antenna designs and creates complications in choosing the appropriate transponder for any given vehicle. STAR's new Solana is designed and tuned to be a simple, single solution for any vehicle.

STAR's Solana is the result of over two years of design, development and testing of transponder designs to achieve the perfect balance of convenience and performance in a passive transponder for vehicle applications.

Solana utilizes a flexible memory architecture which provides an optimum allocation of memory and interoperability. It is ideal for high security applications. Solana's user memory may be secured by the chip's read-lock and/or write-lock features allowing the transponder to support a variety of public/private usage models. The chip also features a factory pre-programmed and permanently locked 64-bit serial number that cannot be altered. This serial number in conjunction with the EPC data bank can be used to generate a Unique Access Code for each and every transponder.

***Your Success is Our Vision***





## Standard Features

- Specially Designed for Vehicle Applications
- Small-Sized Design
- Improved High Read Rate Performance
- Tamper Evident Feature (Non-Removable, Non-Transferable)
- IR/UV Light Protection
- Standard 1 Year Warranty

## Additional Options

- Patented BOR (Break on Removal)
- Custom Color Press or Variable Printing
- Custom Chip Encoding
- Transparent/White Label
- 1-part Label
- 2-part Label

## Specifications

Dimensions	1-part Label : 80 x 24mm ( 3.14 x 0.94" ) 2-part Label : 80 x 34mm ( 3.14 x 1.34" )
RF Protocol	ISO 18000-6C/63 EPC C1G2
Operating Frequency	860 - 960 MHz
Operating Temperature (Installed)	-50°C to +85°C (-58°F to +185°F)
Relative Humidity (RH) (Installed)	100% Condensing Humidity
Chip Type	Alien H3 chip
EPC	96 - 480 Bits
On-Chip Memory	800 Bits
Unique TID	64 Bits
Access Password	32 Bits
Kill Password	32 Bits
EEPROM Data Retention	50 Years
EEPROM Write Endurance	100,000 Cycles
Custom TID Bitmask	Optional
Password Authentication	Yes