



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 windshield or headlamp. Most passive transponders are tuned to either Windshield (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")

RF Protocol

2-part Label : 80 x 34mm (3.14 x 1.34")

Operating Frequency

ISO 18000-6C/63 EPC C1G2

Operating Temperature (Installed)

860 - 960 MHz

Relative Humidity (RH) (Installed)

-50°C to +85°C (-58°F to +185°F)

Chip Type

100% Condensing Humidity

EPC

Alien H3 chip

On-Chip Memory

96 - 480 Bits

Unique TID

800 Bits

Access Password

64 Bits

Kill Password

32 Bits

EEPROM Data Retention

32 Bits

EEPROM Write Endurance

50 Years

Custom TID Bitmask

100,000 Cycles

Password Authentication

Optional

Yes