



2-piece Vehicle Transponder

Product Features

- Patented 2-piece design for versatile applications
- Best in class passive vehicle transponder
- ISO18000-6C/63
- Maintenance free, no battery
- Near Field & Far Field Reading



Pulsar™

Product Description

Pulsar is a compact and powerful 2-piece passive UHF ISO 18000-6C transponder providing flexibility in a single On-Board Unit (OBU) for Automatic Vehicle Identification Systems such as E-Tolling, Secure Parking and Access Control.

Pulsar consists of a Pulsar Card (plastic UHF RFID card), which contains the near-field ID, and a Pulsar Holder that enables the Pulsar Card to be read in high speed tolling lanes or with long distance readers.

Pulsar's 2-piece construction is innovative and ideal for applications requiring near-field access control or account management/cashiers payment. When the Pulsar Card is out of the corresponding Pulsar Holder, the read range is limited to a few centimeters (near-field) allowing the card to be safely carried in a wallet, pocket or ID card holder.

Pulsar is cost efficient, has a long life and is battery free which makes it virtually free of maintenance or replacement over years of use.

Multiple Pulsar Cards can be used with a single holder providing mobility and flexibility for users across different vehicles.

STAR's new Pulsar is great for Electronic Toll Collection (ETC), Electronic Vehicle Registration (EVR), HOT/HOV Lane Tolling, Self-Declare Tolling/Express Lanes, Secure Parking and Access Control, or other applications requiring 2-piece transponder.

Pulsar card's memory can be custom encoded with user's specific data. It also features a factory pre-programmed and permanently locked 64-bit serial number that cannot be altered.

Pulsar Card can also be pre-printed with logo's, barcodes, photos and other security features. Customers can also use blank white cards and perform their own custom printing using a device such as a color credit card printer.

Your Success is Our Vision





Specifications

Holder Dimensions	98 x 58 x 6 mm (3.86 x 2.28 x 0.24")
Card Dimensions	86 x 54 x 1 mm (3.39 x 2.13 x 0.04")
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)
Material	PET
EPC	96 - 480 Bits
Chip Type	Alien H3 chip
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