

Multi-Mode Transponder

Highlights

- Passive UHF ISO 18000-6C/63 transponders
- Ideal for High Occupancy Tolling (HOT / HOV) managed lanes
- Two (Gemini) or three (Apollo) multiple modes are available for self-declaration
- Permanent windshield mount or transferable between different vehicles
- Custom logo design, printing and encoding options



APOLLO™



GEMINI™

Product Description

Apollo / Gemini Multi-Mode Transponders are ideally suited for HOT / HOV managed lanes and other ITS applications requiring multiple modes in a single On-Board Unit.

This unique multi-mode design of Apollo / Gemini permits a vehicle driver to self-declare the number of occupants by simply moving a toggle on the tag, which uniquely completes a circuit on the selected HOT / HOV state assuring that only one mode is read by the RFID reader.

With their intelligent design to isolate each HOT / HOV state, STAR's Apollo & Gemini assure that only the desired mode is read by the tolling system. This allows agencies to easily charge appropriate fees based on the number of occupants in a vehicle. The transponder may also be configured to identify two or three different accounts, such as an individual account, business account, or secure vehicle access account.

Apollo / Gemini's polycarbonate case is highly durable, and UV / IR resistant, making the transponder performance reliable even after outdoor long exposure.

With their minimized size and maximized read distance, Apollo and Gemini are the clear choice for applications requiring a Multi-Mode Transponder.

Your Success is Our Vision



Specifications

Dimensions	100 x 50 x 9 mm (3.93 x 1.97 x .0354")
Weight	40g (0.09lbs)
RFID Protocol	ISO18000-6C/63 EPC C1G2
Operating Frequency	860 - 960 MHz
Operating Temperature	-50°C to +85°C (-58°F to + 185°F)
Multi-Mode	Gemini : 2 unique modes Apollo : 3 unique modes
Case Material	Polycarbonate
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