

JANUS INTERIOR TRANSPONDER

The world's most popular toll transponder - in a new, sleek, smaller package

Overview

MARK IV's JANUS Transponder delivers the same powerful flexibility and functionality as MARK IV's IAG interior FPT, the world's most popular toll transponder. Now, in a much smaller package, toll patrons will appreciate JANUS' sleeker case. The JANUS Interior Transponder features the same Dual-Lock™ installation as the FPT transponder, allowing for easy replacement. There are 17 million transponders in service on E-ZPass® supplied by MARK IV.

Scalability

JANUS Interior Transponders are designed for high performance in both lane-based and open-road toll collection environments, enabling agencies to migrate seamlessly to open road applications as resources permit.

Durability, Longevity & Value

With a battery design life of 10 years, JANUS Interior Transponders deliver optimum life-cycle cost, and can be transferred between vehicles, expanding their usability and allowing for unit recycling.

Multiple Applications

- Electronic toll collection
- Parking payment
- Traffic monitoring
- Access control
- Any ITS application enabled by location-based vehicle identification

Reliability

Field tested, the JANUS transponders are proven reliable. Designed to deliver unparalleled performance under the most challenging of circumstances:

- Vehicle speeds up to 100 MPH
- Multiple lane, open road applications
- Stop and go bumper to bumper traffic
- Snow, rain, and fog

Key Benefits

- IAG interoperable for function, performance and mounting
- Designed for lane-based and open road toll collection
- Lower lifecycle costs than one-use permanently mounted tags
- Recyclable to new accounts
- Ten-year design life
- Portability between vehicles



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Technical Specifications

- ✦ Read/write capabilities; fixed and variable data fields
- ✦ Half duplex, using the same frequency and modulation for up and down links
- ✦ Compatibility with the IAG protocol using active Type II read/write technology
- ✦ Information transmitted in 256 bit packets at a nominal rate of 500 kbps
- ✦ Operates in NMLMS band (909.75 MHz – 921.75 MHz)
- ✦ FCC and Industry Canada approved

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Dimensions	3.7" x 1.9" x 0.9"
Weight	1.87 ounces (53 grams)
Case Color	White, Blue, Orange, Yellow and Green
Data Capacity	256 bits
Data Format	Manchester Keyed Carrier
Error Checking	16-bit Cyclic Redundancy Check (CRC)
Data Rate	500 kbps ± 10% (uplink/downlink)
Operating Frequency	915 MHz nominal center
Mean Radiated Power	1mW nominal
Operating Temperature Range	-40 deg C to +85 deg C
Design Life	10 years
Power Source	Internal lithium battery