

TDMA V6 Interior Transponder. 915 MHz.



Kapsch's TDMA V6 Interior Transponder enables motor carriers to avoid lengthy stops at weigh stations and ports of entry. The device's onboard lights and tone alert the driver to bypass inspection facilities or pull-in for manual processing, then facilitate verification by enforcement officials within the 15 minute driver feedback signal standard recommended by ITS America.

Kapsch's TDMA V6 Interior Transponder delivers the same high performance, flexibility and functionality as the TDMA mode of Kapsch's FUSION® CVO transponder in a smaller, lighter and more attractive package. Dual-Lock™ interior mounting strips allow for easy movement among vehicles. High bond tape mounting is also available. For TDMA tolling and TDMA HOT Lane applications, the transponder can be factory configured for the standard 5 second driver signal (LED and buzzer).

Scalability.

TDMA V6 Interior Transponders are designed for performance in highway speed, multi-lane applications, making use of the "ASTM V6" de facto standard protocol.

Kapsch's TDMA V6 Interior Transponder is compatible with all ASTM V6 readers deployed in North America, including PrePass®, NORPASS, BESTPASS, Green Light, Alaska's CVISN, 407 ETR and MnPASS. The device is designed to be read and rewritten at very high data rates to ensure accuracy and for greater security.

Durability, Longevity and Value.

With a typical operating life of 9 years, depending upon usage, TDMA V6 Interior Transponders deliver optimum life cycle cost and can be transferred between vehicles, expanding their usability and allowing for unit recycling. Kapsch offers optional encryption and low battery warning functions in conjunction with Kapsch readers.



Reliability.

TDMA V6 Interior Transponders deliver unparalleled performance under the most challenging of circumstances:

- Vehicle speeds over 100 mph
- Multi-lane, open road applications
- Stop and go traffic
- All weather performance
- Recyclable to new accounts
- Nine year operating life

Multiple Applications.

- Weigh station bypass
- Mainline screening
- e-Screening
- Access control
- TDMA electronic toll collection
- TDMA HOT Lanes
- Any ITS application enabled by location-based vehicle identification

Features.

- TDM protocol compliant
- Interoperable with all ASTM V6 readers
- Designed for weigh station bypass and electronic credentialing
- Lower life cycle costs than one-use permanently mounted tags
- Recyclable to new accounts – portable between vehicles
- Typical nine-year operating life

Technical Features

Operating Frequency

- 915 MHz nominal center

Dimensions (WxHxD)

- 4.0 x 2.6 x 0.93 in.
- 10.16 x 6.60 x 2.36 cm

Weight

- 1.87 oz.
- 53 g

Case Color

- Black and Yellow
(other colors available upon request)

Driver Feedback Signals

- Visual: Red, Amber and Green LEDs
- Audible buzzer

Data Capacity

- 512 bits

Data Format

- Manchester Keyed Carrier

Error Checking

- 16-bit Cyclic Redundancy Check (CRC)

Data Rate

- 500 kbps ± 10% (uplink/downlink)

Operating Temperature

- -40° C to +85° C
- -40° F to +185° F

Storage Temperature

- -40° C to +85° C
- -40° F to +185° F

Vibration

- SAE J1211, 1.5 g

Shock

- SAE J1211

Power Source

- Internal lithium battery

Design life

- 9 years

Mounting

- Interior

Regulatory

- FCC Part 90 and Part 15,
Industry Canada RSS-137

Compatibility

- TDMA

Enhanced Features Available

- Battery Monitoring, ID Encryption, Pre-trip Inspection Button

Kapsch Group.

Kapsch is one of Austria's most successful technology corporations, specialized in the future-oriented market segments of Intelligent Transportation Systems (ITS), Railway and Public Operator Telecommunications as well as Information and Communications Technology (ICT). Kapsch. Always one step ahead.