

TDMA V6 Interior Transponder.

The bypass buddy for motor carriers.



Kapsch's TDMA V6 Interior Transponder is designed to help motor carriers 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 with 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 & 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.

Reliability

Field tested, the TDMA V6 Interior 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
- Multiple transponders simultaneously within the capture zone
- Recyclable to new accounts – portable between vehicles
- Typical 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

TDMA V6 Interior Transponder Technical Specifications:	
Operating Frequency:	915 MHz nominal center
Dimensions (W x H x D):	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

Key Benefits

- 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



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Kapsch Group

The Kapsch Group and its entities Kapsch TrafficCom, Kapsch CarrierCom and Kapsch BusinessCom are specialised in the future-oriented market segments of Intelligent Transportation Systems (ITS) and Information and Communication Technology (ICT). Kapsch. Always one step ahead.

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