

FUSION CVO Transponder.

The interoperability solution for toll and weigh station bypass programs.



Kapsch TrafficCom IVHS delivers a powerful solution for Commercial Vehicle Operations that solves the interoperability challenges of weigh station bypass and E-ZPass®. The FUSION®CVO transponder is TDMA/IAG compatible. It is compatible with TDMA weigh stations, as well as the E-ZPass toll system in the Northeast.

The Interoperability Solution

Across the Nation

The FUSION CVO Transponder is the device of choice for CVISN programs across the nation, including PrePass® in its PrePass Plus service and the New York State Trucking Association's BESTPASS program. The FUSION CVO Transponder is also compatible with the 407 ETR open road toll system. The key to the FUSION CVO Transponder's interoperability across diverse systems is its high-transaction performance required for tolling, plus its standard signaling method required by weigh station programs across the nation.

Standardized Interfaces

The CVO version of the FUSION transponder is designed with a buzzer and three LEDs, (red, yellow and green) configured with a signal flashing sequence recommended by the CVO Interoperability Committee of ITS America for use in all North American weigh station bypass, e-screening and CVISN programs.

Key Benefits

- IAG (TDM) and/or ASTM "V6" TDMA compatible
- Standard CVO signaling (ITSA CVO compliant)
- Vehicle and truck applications
- Reliable performance to 100 mph
- Multi-lane, open road and HOT lane applications
- All-weather performance
- Encryption available for TDMA protocol



FUSION CVO Transponder Technical Specifications:	
Operating Frequency:	915 MHz (nominal center)
Dimensions (W x H x D):	3.1 x 4.3 x 0.9 in. 7.87 x 10.92 x 2.29 cm
Weight:	7.00 oz 198 g
Case Color:	Pearl White, Blue, Orange, Yellow, Gray and Black
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:	6 years
Mounting:	Interior
Regulatory:	FCC Part 90 and Part 15, Industry Canada RSS-137
Compatibility:	TDMA and optionally IAG protocol

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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