

# J2

## TDM Transponder

TransCore's J2 TDM Transponder is a 915-MHz battery powered radio frequency identification (RFID) tag. It is ideal for high-speed, high-reliability applications.

The J2 TDM transponder works for basic IAG operations and include capability to detect and prevent transponder tampering, cloning, and spoofing.

The J2 TDM Transponder's case is constructed of highly durable, impact resistant, molded plastic. The non-replaceable internal battery provides years of maintenance-free service.

The J2 TDM Transponder is designed for mounting to a vehicle's interior windshield with suction cups or hook-and-loop fastener strips.

Other customizable options include printing on the case, molded insert on the front of the case, custom case colors, and laser-etching.



### Features

- ▶ High speed, high performance reading and writing
- ▶ Non-replaceable internal battery with a 10-year design life
- ▶ Mounts to interior windshield with suction cups or hook-and-loop fastener strips
- ▶ Impact resistant, molded plastic case available in six colors: blue, white, yellow, green, orange, and gray
- ▶ Custom printing available on front and back of case

### Applications

- ▶ Electronic toll collection
- ▶ Traffic management

# J2 TDM Transponder

## COMMUNICATIONS

### Transmit Frequency Range

915 MHz (nominal center)

### Trigger/Receive Frequency

915.75 MHz (nominal center)

### Polarization

Linear, horizontal

## SOFTWARE FEATURES

### Data Memory

256 bits

### IAG-TDM

### Data Rate

500 kb/s Manchester

### Data Format

Manchester keyed carrier

### Error Checking

16-bit cyclic redundancy check (CRC)

## POWER

### Power Source

Internal lithium battery

## LIFE EXPECTANCY

### Service Life

10-year design life

## PHYSICAL CHARACTERISTICS

### Weight

1.75 oz. (49.61 g)

### Dimensions

4.35 x 1.42 x 0.56 in (11.05 x 3.61 x 0.42 cm)

### Color

Six colors: white, blue, orange, yellow, green, and gray

### Case

Plastic cases are UV stable and are not affected by temperature extremes or severe conditions typical of this operating environment. Shock and vibration resistant.

### Mounting Surface

**Interior:** Non-metallic windshield

### Mounting Method

Suction cups or hook-and-loop fastener strips

## ENVIRONMENTAL

### Operating Temperature

-40°F to +185°F (-40°C to +85°C)

### Humidity

100% condensing

## REGULATORY

Complies with Part 15 of the FCC rules

**FCC ID:** FIH051132B

**IC ID:** 1584A-FIH051132B

## COMPATIBILITY

TDM

## MODEL PART NUMBERS

13-7820-NNN

For more information:

**Sales Support**

800.923.4824

**Technical Support**

505.856.8007

[transcore.com](https://www.transcore.com)



<b>⚠ WARNING</b>	
<ul style="list-style-type: none"><li>• <b>INGESTION HAZARD:</b> This product contains a button cell or coin battery.</li><li>• <b>DEATH</b> or serious injury can occur if ingested.</li><li>• A swallowed button cell or coin battery can cause <b>Internal Chemical Burns</b> in as little as <b>2 hours</b>.</li><li>• <b>KEEP</b> new and used batteries <b>OUT OF REACH of CHILDREN</b></li><li>• <b>Seek immediate medical attention</b> if a battery is suspected to be swallowed or inserted inside any part of the body.</li></ul>	