OMNIAIR CERTIFIED
RFID-6C SP-MP-ML Tolling
2025110604

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neoPass™

Multi-Mode Switch 6C Transponders



Our Multi-Mode switchable RFID transponders give agencies the flexibility to implement up to three separate toll fees such as single occupancy vehicle (SOV), two occupancy vehicle (HOV2), or three or more occupancy vehicles (HOV3+).

Overview

This OmniAir® and E-ZPass® Interagency Group-certified 6C transponder has read/write functionality, includes a unique identification code and operates without a battery by drawing power from the reader.

Two Dual Lock fasteners provide easy and reliable interior windshield installation.

Our proven experience, reliability, and consistent performance are the result of our design excellence, stringent quality control, and rigorous internal testing of 100% of our tags at our San Marcos, CA manufacturing facility.

Neology has distributed millions of 6C tags globally with a significant percentage of 6C transponders in the US tolling market. Neology holds long-standing intellectual properties with over 400 granted patents.

Transponder Features

- Sliding panel switches from one account to another using multi-mode functionality
- Available in 2- or 3-position switchable design
- 2-position switchable design also available as on/off switch
- Suitable for ETC and HOT lane applications
- Offers multiple levels of security
- Slim, modern design
- Custom branding and tag colors available
- All tags are passive, eliminating the need for batteries
- Over 10-year life expectancy
- Outstanding performance reliability with high-speed data transfer and read ranges between 7-12 meter
- Compliant with 6C TOC power requirements
- Loyalty tag program available for state university or sports team logos

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Version 10

Neology is proud to be an International Bridge, Tunnel and Turnpike Association (IBTTA) member and Platinum Sponsor.

Technical Specifications

Product Information

Part Number:

201097: Two-position switchable

201096: Three-position switchable

Physical Characteristics

Dimensions: (L x W x H)

100 x 8 x 40 mm

3.95 x 0.31 x 1.57 inches

Material: Polycarbonate

Environmental Characteristics

Operating Temperature: -40° to +85° C

Storage Temperature: -55° to +125° C

ESD Voltage Immunity: 15kV Air, 8kV Contact

Relative Humidity: 95%

Mounting Method

Two Dual Lock fasteners provide long-life, reliable attachment to vehicle windshield for removable tags.

Electrical Characteristics

Chip Type: NXP UCODE9xm

IC Operating Frequency: 860-960 MHz

Supported Protocol

ISO/IEC 18000-6C,

UHF EPC Global Gen 2 (V. 2.1)

Tag Read Range: 7-12 meters (902-928 MHz)

EPC Memory: 96 bits, extensible to 496 bits

User Memory: min 512 bits

Tag Identifier: 96-bit TID

Access Password: 32-bit

Kill Password: 32-bit

EEPROM Data Retention: 20 years

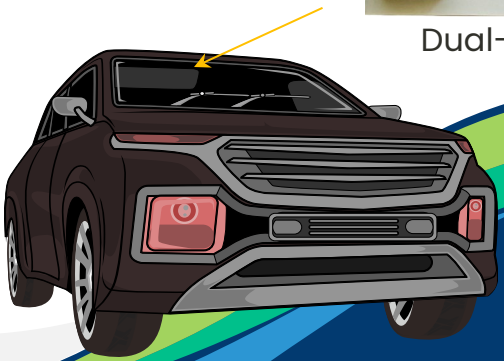
EEPROM Write Endurance: 100k cycles

Unique TID

Password Authentication



Dual-Lock Removable



Neology, Inc. is a global tolling technology company headquartered in Carlsbad, California, that develops and delivers tolling products and services used in over 5,000 lanes and ETC systems across North America, Latin America, Europe, and Asia Pacific.

Neology is partnering with our customers to help communities enhance mobility, increase sustainability, improve safety, and generate increased revenue.

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Version 10