neoPass™

Hardcase 6C Transponder

OMNIAIR ® CERTIFIED
RFID-6C SP-MP-ML Tolling
2025110603



The Neology UHF Transferrable 6C interior and exterior hardcase tag is a high-performance radio frequency (RF) transponder used for automatic vehicle identification applications.

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 installation of transponder with an optional clear case holder for convenient tag mobility.

Our proven experience, reliability, and consistent performance are the result of our design excellence, 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

- IP67 rated for exterior mounting
- Simple installation
- Offers multiple levels of security
- Password authentication
- 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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Neology is proud to be an International Bridge, Tunnel and Turnpike Association (IBTTA) member and Platinum Sponsor. ibtta Platinum

Technical Specifications

Product Information

Part Number:

201099: Hardcase

201099-CH: Hardcase with Clear Case Holder

Physical Characteristics

Dimensions: (L x W x H)

Without Holder: 80 x 9 x 40 mm

With Holder: 85 x 15 x 40 mm

Material: Polycarbonate

Environmental Characteristics

Operating Temperature: -40° C to +85° C

Storage Temperature: -55° C to +125° C

IP Classification: IP67

Rain/Hermicity per MIL-STD-810G

Weatherability: Excellent

Including UV resistant and sea water

Vibration Resistance:

ASTM D4169 Truck Transportation profile

ESD

15kV Air Discharge, 8kV Contact Discharge

Mounting Method

Two Dual Lock fasteners provide easy attachment to vehicle windshield, or optional clear case holder, allowing for convenient removal for use in another registered vehicle.

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

User Memory: over 512 user bits

Tag Identifier: 96-bit TID

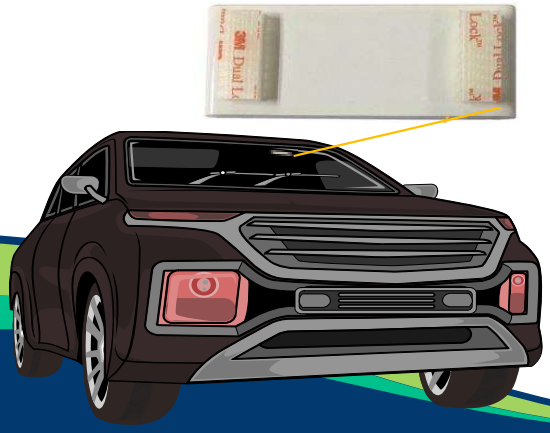
Access Password: 32-bit

Kill Password: 32-bit

EEPROM Data Retention: 20 years

EEPROM Write Endurance: 100k cycles

Password Authentication



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.

neology mobility [re]imagined

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