



Inlay XCTF-3001

High Frequency 13.56MHz
Passive Operation & True Anti-collision

Overview

The Invengo Inlay XCTF-3001 consists of 13.56MHz high-frequency (HF) transponders that are compliant with the ISO 15693 global standards.

A true anti-collision function allows operating multiple tags in the field simultaneously.

No battery is required for the XCTF-3000. When it is placed in the field of a reader antenna, the high speed RF communication interface allows transmitting data with up to 53kbits / s.

The XCTF-3000 offers 1,024-bit non-volatile and multiple times programmable memory, and the flexibility to be integrated into paper, PVC, or other substrates.

Applications

Logistics

Asset Tracking

Production Authentication

Features

- ISO 15693 compliant
- Operating frequency: 13.56 MHz (ISM, world-wide license free available)
- Contact-less transmission of data and supply energy (no battery required)
- Anti-collision
- Read range up to 1.5m / 60in (depending on antenna geometry)
- Fast data rate: up to 53kbit / s
- High data integrity: 16bit CRC, framing
- Electronics article surveillance (EAS)
- Write distance equal to read distance

Specifications

Inlay XCTF-3001

Physical Characteristics

Dimensions

Diameter 25mm
(1in)

Base material

PET; aluminum

User Environment

Operating temperature

-20°C to +75°C
(-4°F to +167°F)

Storage temperature

-20°C to +80°C
(-4°F to +176°F)

Performance Specifications

Operating frequency

13.56MHz

Supported standard

ISO 15693

Functionality

Read / Write

Read / Write range

up to 1.5m / 4.9in (reader dependent)

Typical read / write range

10cm / 3.9in
(reader dependent)

Chip type

I CODE SLI

Memory

1,024 bits

Data retention

> 10 years

About Invengo

Incorporated in 1999, Invengo Information Technology Co., Ltd. is a leading vendor of RFID technology and products in China. Invengo (stock symbol: 002161) is a public company listed in SZ Stock Exchange, China.

Invengo lineup consists of 6 series and more than 60 models of RFID products: fixed and handheld reader, reader module, antenna and inlay/label/tag. Invengo has been successfully providing RFID solutions and service to various sectors: railway/transportation, warehouse management, intelligent traffic/ETC, logistics and supply chain, library, assets tracking and management, etc. Invengo Performance Test Center is one of the eleven EPCglobal Accredited Test Centers around the world to perform tagged unit performance testing in a variety of real-world environments common with the supply chain.

Invengo's up-to-date production facility provides quality and economical RFID transponders in the forms of inlay, label, ticket and card, with a capacity of 150 million pieces annually.

Invengo is an ISO 9001: 2000, ISO14001 certified company and member of EPCglobal(China) and AIM(China).

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