



Apparel Inlay XC-TF8024-C06

EPCglobal Compliant, Monza™ 4 Chip,
Industry Leading Performance,
True 3D Orientation, QT Technology for Privacy Control

Overview

Conforming to EPCglobal Class 1 Gen 2 and ISO 18000-6C, the Invengo XC-TF8024-C06 is an omnidirectional apparel inlay which is delivered on rolls to enable ease of scalability in high volume conversion and end-user application environments

Enabled with True 3D antenna technology, the XC-TF8024-C06 achieves orientation insensitivity as well as excellent performance, eliminating orientation-related missed reads or blind spots, particularly in apparel applications.

Through QT™ technology, an owner/user can maintain two data profiles (one public, one private) on the XC-TF8024-C06, allowing confidentiality of business-sensitive data while assuring consumers of privacy. The data stored in the private data profile is protected by a password-controlled command and may only be accessed at very short read distances.

With Impinj's Monza® 4 Tag Chip, the XC-TF8024-C06 offers 128 bits of memory for encoding an Electronic Product Code (EPC), 512 bits of user memory and 48 bits of serialized TID.

In addition, the XCTF-8024-C06's embedded nonvolatile memory (NVM) provides 100,000 cycle endurance/ 50-year data retention.

Prior to delivery, the XC-TF8024-C06 undergoes complete testing, ensuring the high quality that customers expect from Invengo.

Features

- EPCglobal and ISO 18000-6C compliant
- Operating frequency 860-960MHz
- High R/W sensitivity
- Excellent interference rejection
- True 3D orientation
- Data protection through QT™ technology
- NVM with 100,000-cycle/50-year retention
- Extended temperature range
- 128-bit EPC number, 512-bit user Memory, 48-bit serial TID
- 32-bit access password; 32-bit kill password

Applications

Apparel Management

Supply Chain

Logistics

Work in Process (WIP)

Specifications

Apparel Inlay
XC-TF8024-C06

Physical Characteristics

Dimensions

50 × 30 × 0.21mm (2.0 × 1.2 × 0.01in)

Base material

PET + Aluminum

User Environment

Operating temperature

-10°C to +70°C (14°F to +158°F)

Storage temperature

-20°C to +85°C (-4°F to +185°F)

Humidity

≤80%

Performance Specifications

Operating frequency

860-960MHz

Supported standard

EPCglobal Class 1 Gen 2; ISO 18000-6C

Read distance

Up to 5m / 16.4ft (reader dependent)

Write Distance

Up to 2.5m / 8.2ft (reader dependent)

Chip type

Monza™ 4 QT (other chip/s available upon request)

Memory

128-bit EPC; 512-bit user memory;

48-bit serial TID

Data retention

50 years

EEPROM write endurance

100,000 cycles

Functionality

Read / Write

Polarization

Linear

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 Shenzhen Stock Exchange, China.

Invengo lineup consists of 5 series and more than 100 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, ISO 9001 and CMMI Level-3 certified company and member of EPCglobal (China) and AIM (China).

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