Smart Label XCTF-8101A

Ultra High Frequency 860-960MHz
Robust Design & Consistent Performance

Overview

The Invengo XCTF-8101A is a high performance, passive intelligent label optimized for "Slap and Ship". Conforming to the EPCglobal Class1 Gen2 standard, it addresses application areas which demand long operating distances and high anti-collision rates.

The XCTF-8101A shows unsurpassed UHF performance over the UHF bandwidth of 860-960MHz, reliable operation in dense reader environment and long read ranges. These smart labels feature an extended optional 512 bit programble user memory, 240 bit EPC number and 64 bit tag identifier including a 32 bit unique serial number.

In addition, the XCTF-8101A provides a unique custom command set, such as Electronic Article Surveillance (EAS) for increased security protection, which makes it easier to optimize the reader to tag communication. All custom commands are 32 bit access password protected.

Applications

- Consumer Products
- Logistics
- Manufacturing

Features

- [ ] ECompliant to EPCglobal Class 1 Gen 2 standard & ISO18000-6C
- [ ] Operating frequency 860-960MHz (ISM, world-wide license free available)
- [ ] 240-bit EPC number
- [ ] 64-bit tag identifier
- [ ] Optional 512-bit programmable user memory
- [ ] Contact-less transmission of data and supply energy (no battery required)
- [ ] EAS (electronic article surveillance)
- [ ] 32-bit access password; 32-bit kill password
- [ ] Supports bar code printer
- [ ] Optimized for "Slap and Ship"
- [ ] Seamless Integration into paper substrate

Specifications

Smart Label XCTF-8101A

Physical Characteristics

Dimensions

101.6 × 50.8mm
(4 × 2in)

Base material

PET; aluminum

User Environment

Operating temperature

-20℃ to +75℃
(-4°F to +167°F)

Storage temperature

-20℃ to +80℃
(-4°F to +176°F)

Performance Specifications

Operating frequency

860-960MHz

Supported standard

EPCglobal Class 1 Gen 2;
ISO 18000-6C

Read distance

Up to 7m / 23ft
(Reader dependent)

Chip type

UCODE G2X / XM

Memory

240-bit EPC;
64-bit TID;
optional 512-bit programmable user memory

Functionality

Read / Write

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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