Tribrid Insert Reader

Contactless, Smart Card and Magnetic Stripe Insert Reader Preliminary Overview

Integrated Tribrid Technology

ID TECH designs Contactless Card, Smart Card and MagStripe reading technologies into one unit and names it Tribrid. Our industry leading Hybrid Insert Reader adds contactless (proximity card) capability for self service applications like kiosks, vending machines, fuel pumps, and ATM's.

Reads Smart Cards and Contactless Cards

The Tribrid is a Level 1, EMV approved reader for both memory and microprocessor smart(ICC) cards. With a read range up to 5 centimeters supported by two proximity antennas, contactless card operation can be performed either in the card slot or outside the bezel. The Tribrid reliably reads cards conforming to ISO 7811, 7816 & 14443 A/B standards.

Reads MagStripe Cards

ID TECH's Tribrid also reads 3 tracks of MagStripe information. The custom ASIC circuits provide reliable operation even with scratched and damaged cards. It is designed for over 1,000,000 reliable operations for all cards.

Features and Benefits:

- Contactless and Smart Card reading & writing, plus MagStripe reading
- Reads proximity cards at the bezel or when inserted
- Contactless reading range up to 5cm (from the bezel)
- Guaranteed 1 million card cycles for all card types
- MagStripe reading ISO tracks and many formats
- Contact smart card reader is EMV Level 1 approved
- Latch, gate, front switch and SAM option





Tribrid Insert Reader Specifications

Electrical

Power Requirements: 5VDC/150mA

Support: Conforms with ISO14443A/B, ISO7811 & 7816

Interfaces: RS232

Contactless form: Card, Label, Token, Wristbands, etc.

Operating distance: Up to 5cm (all cards)

Environmental

Operating temperature: $0^{\circ}c \sim +60^{\circ}c$ Store Temperature: $-40^{\circ}c \sim +70^{\circ}c$

Humidity: 95% (non-condensing)
Antenna: Dual antenna operation

Reliability

Operating Life: 1,000,000 passes minimum

Chassis and Bezel: 1,000,000 card cycles minimun IC Card Connector: 1,000,000 passes minimum

Contacts are gold-plated and exceed EMV life requirements

for minimum resistance over the life of the reader

Mechanical

Media thickness: 0.025 to 0.035 inches

Media Formats: ISO 7811, F2F. Media with magnetic coercivity of 300

through 4,000 Oersted

Reading Speed: 3 to 50 inches per second

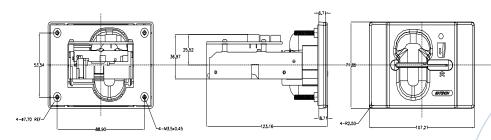
Contactless cards now supported

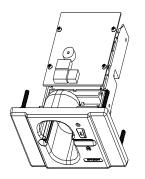
Mifare® MF1 S50 (ISO14443-A)

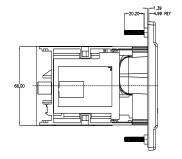
Mifare® MF1 S50 dual-interface card (ISO14443-A & ISO7816)

Mifare® MF1 S70 (ISO14443-A)

Inside® Picopass plain card (ISO14443-B)









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ISO 9001: 2000 Certified