

# ***Spectrum™ III Hybrid***

## ***Intelligent OEM Insert Reader Module***

### **Reads Magnetic Stripes**

ID TECH's Spectrum Hybrid Insert Reader is designed to read and decode up to three tracks of magnetically-encoded information. It reliably reads media conforming to ISO 7810 and 7811 standards. The magnetic head is spring-loaded to ensure good contact with warped or bowed cards.

### **Reads Smart Cards**

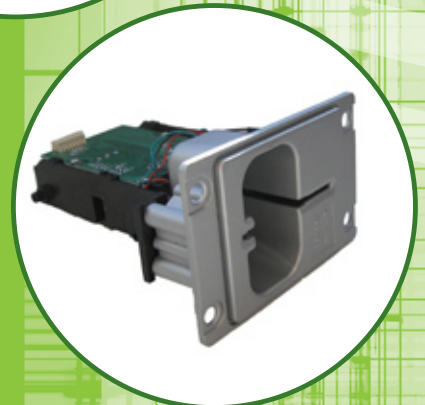
The ID TECH Hybrid Insert Reader can read and write to Integrated Circuit Cards (ICC), smart cards, memory, or microprocessor cards conforming to ISO 7816 standards. The reader is approved to the Terminal Level 1 EMV2000 specification, and is able to communicate with a host PC as a smart card reader-writer under the PC/SC version 1.0 interface. In fact, both the USB and RS-232 versions of the reader can communicate with the host as PC/SC or serial devices. The PCA provides a SAM (SIM) socket, and an optional secondary PCA provides four additional SAM interface sockets.

### **Selects and Formats Data**

The ID TECH Hybrid Insert Reader is a fully-intelligent unit that can be configured to read all tracks or selected tracks from a magnetic stripe. It can also output data with a terminating character and up to nine prefix and postfix characters to match a data format expected by the host.

### **Features and Benefits**

- Reads both magnetic stripe and smart cards
- Available in RS-232, USB PC/SC, and USB RS-232 interfaces
- Reliable electronics guarantees for over one million card cycles
- Smart card connector has gold-plated contacts to ensure dependable connections
- Exceptional read operation on real-world MagStripe cards
- Tri-color LED guides the user through the reading process and indicates read status
- Optional gate prevents coins and debris from jamming the card slot
- Card latch and "half card drop-out" options are available
- Choice of standard, large standard, flush mount, large flush mount, metal, or compact bezels



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# Spectrum™ III Hybrid Insert Reader Specifications SPT3-8XX Series

## Electrical

RS-232:	+ 5 VDC/80mA* (power adapter regulated 5 VDC/500mA or equivalent)
USB:	+ 5 VDC/70mA power supplied by the host computer
Operating Current:	80 mA maximum for three tracks of magnetic data
Chassis Ground:	Connected to GND and magnetic head case
Interfaces:	RS-232, USB PC/SC, and USB RS-232

*\*Without latch or smart card options*

## Environmental

Operating Temperature:	0°C to 55°C (32°F to 131°F)
Storage Temperature:	-30°C to 65°C (-22°F to 149°F)
Humidity:	Maximum 95%, non-condensing

## Reliability

Magnetic Head Life:	1,000,000 cycles minimum*
IC Card Connector:	1,000,000 cycles minimum.* Contacts are gold-plated and exceed EMV life requirements for minimum resistance over the life of the reader
Chassis and Bezel:	1,000,000 card cycles minimum*
Warranty:	One year, parts and labor

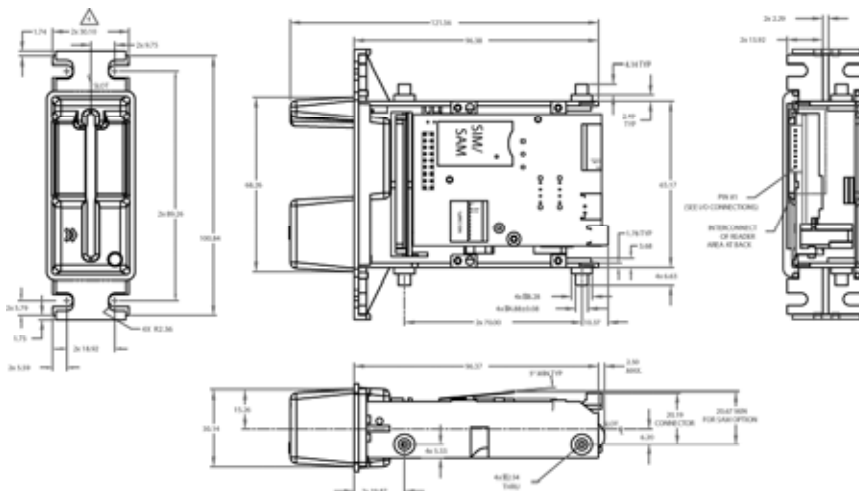
*\*All wear reliability numbers are based on operation in a benign environment*

## Mechanical

Media Thickness:	0.025 inches (0.635mm) to 0.035 inches (0.889mm)
Media Formats:	ISO 7811, F2F. Media with magnetic coercivity of 300 through 4,000 Oersted can be read.
Swipe Speed:	5 to 60 inches per second
Dimensions (L)x(W)x(H):	4.64inches (117mm) x 3.97inches (101mm) x 0.389inches (9.88mm)*
Options:	Latch, Gate, Security Access Module (SAM) sockets, LED indicator, "Card Seated" signal (optional for magnetic stripe, standard for ICC), "Card Present" signal.

*\*Without multiple SAM sockets*

## Footprint:



# ID TECH®

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