SREDHead™

PCI SRED Ready MagStripe Head Assembly

Industry's First SRED Ready Magnetic Head

The first of its kind to achieve PCI level SRED certification with minimum external hardware, ID TECH's SREDHead has the full security requirements needed to meet the toughest payment industry requirements. The SREDHead has an extremely small footprint as all the electronics and security features are built into the magnetic head.

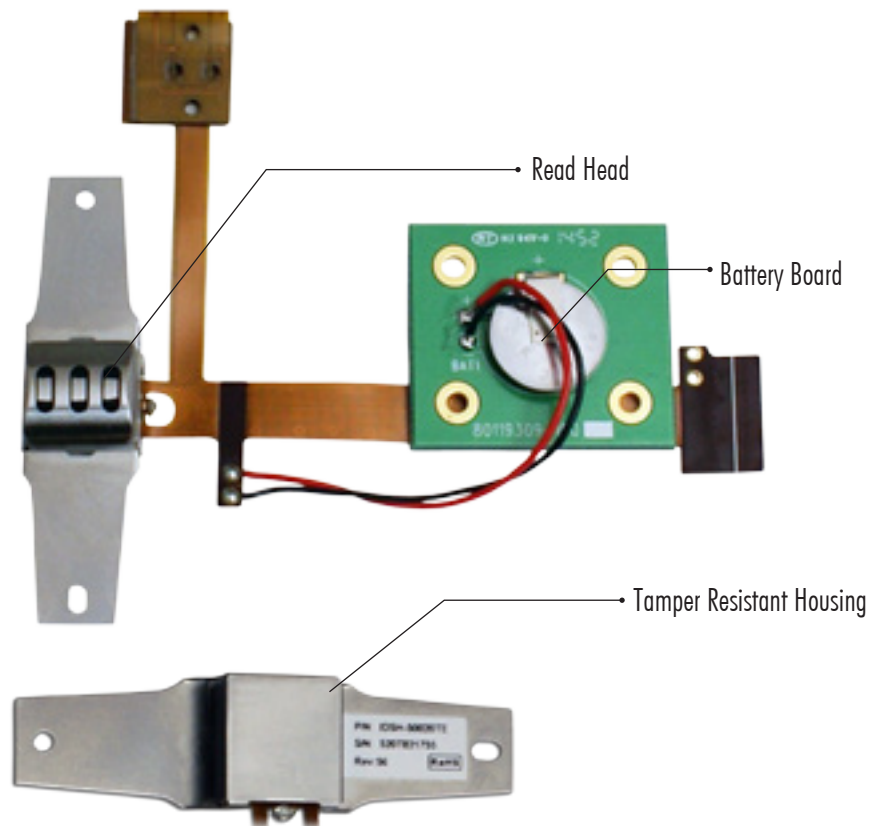### Quick Enablement to Support PCI Requirements

This powerful solution is designed to support easy integration into upcoming or even existing designs. Implementation of ID TECH's SREDHead allows partners to quickly achieve PCI compliance and certification. Being an ideal solution for PCI applications, the SREDHead delivers high quality MagStripe reading of up to 3 tracks of encrypted data. The SREDHead is available in standard wing spring mount but also available in other spring designs which provide flexible mounting options. USB, UART, and SPI are supported interfaces in the SREDHead.

Highest Security OEM Magnetic Read Head

The SREDHead is equipped with both physical and logical security. The device's logical security is accomplished by TDES and AES encryption with DUKPT key management. Card holder data is secured and sent in encrypted output as soon as it leaves the magnetic head. The device's tamper monitoring design adds the layer of physical security that separates the SREDHead from any other encrypting head in the market.

Features and Benefits:

- **Available in USB, SPI, and UART**
- **Bidirectional card reading**
- **In-head electronics to prevent tampering**
- **Reads up to 3 tracks**
- **Built-in encryption engine**
- **Triple DES and AES encryption**
- **DUKPT key management**
- **Simple to mount wing spring**
- **High immunity to ambient noise**
- **Ideal for PCI applications**
- **Exceptional reading reliability of real world cards**

Read Head

Battery Board

Tamper Resistant Housing

ID TECH®

Value through Innovation

SREDHead ™

Specifications IDSH-5XXX

General

Interfaces: USB, SPI, UART
Card Speed: 5 to 60 ips (7.6 to 190.5 cm/s)

Electrical

Power: Operating voltage 3.3V or 5V $\pm$ 10%
Current: Active Power Supply Current: <10mA
                               Standby Power Supply Current: 5 mA
ESD: +4kV discharge to head can

Environmental

Operating Temperature: 32°F to 131°F (0°C to 55°C)
Storage Temperature: -22°F to 158°F (-30°C to 70°C)
Humidity: Maximum 95% non-condensing
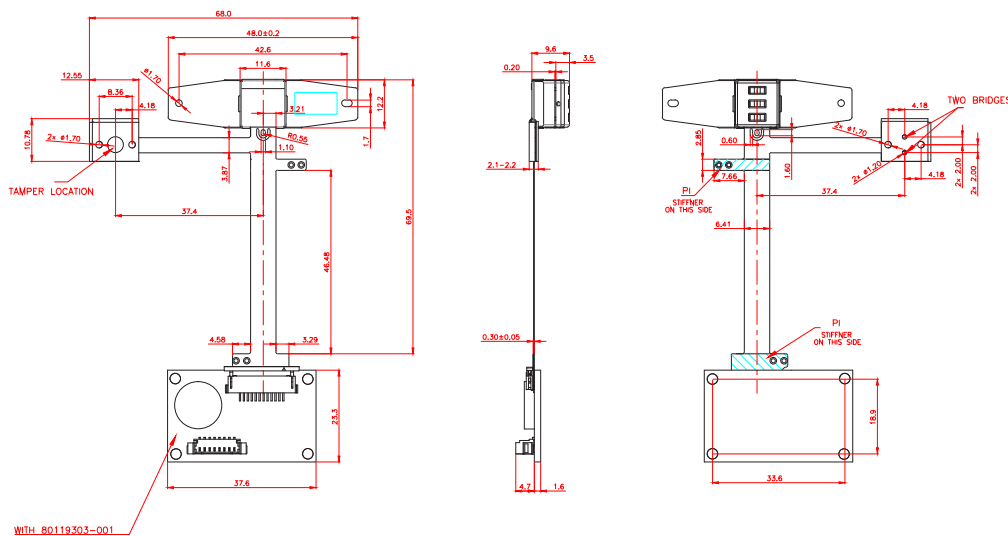
Reliability

Operating Life: 1,000,000 cycles minimum
MTBF: Minimum 300,000 POH
Warranty: One year, parts and labor

Mechanical

Dimension (L)x(W)x(H):   1.90 inches (48.2 mm) x .48 inches (12.20 mm) x .378 inches (9.6 mm)

Footprint:

![ID TECH logo]
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