

# SecureHead™

## Encrypted Intelligent MagStripe Swipe Read Head

### Triple Track Decoding in a Single, Small Footprint

The encrypting SecureHead incorporates ID TECH's state of the art TriMag III ASIC, which allows for the electronics to be embedded in the read head. TriMag III not only performs the magnetic stripe data decoding, it also contains a microprocessor that handles encryption and communications for multiple interfaces.

### High Security Read Head

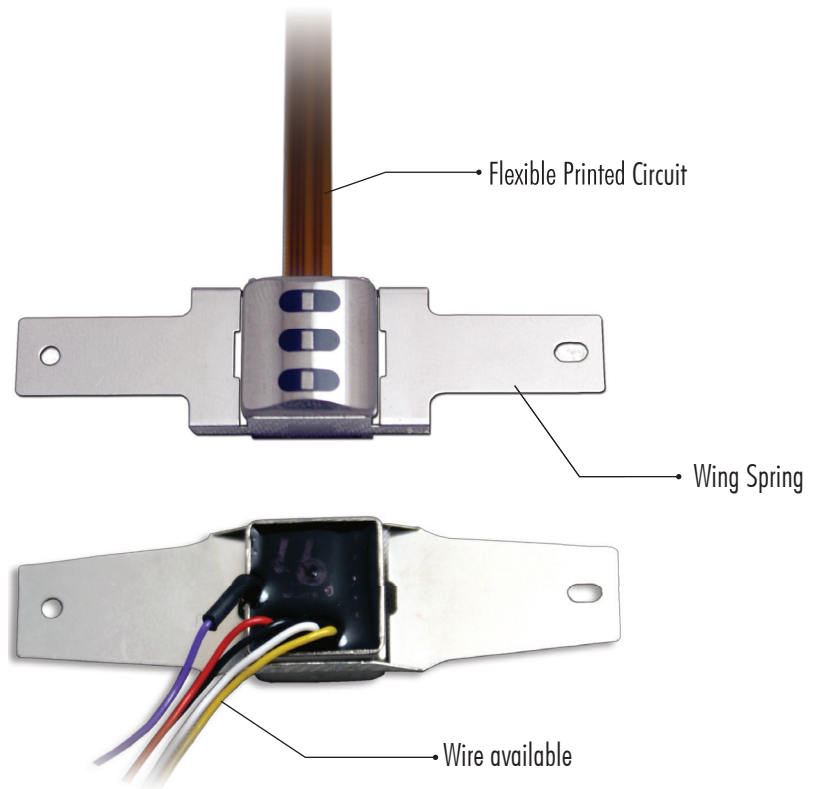
The SecureHead's built-in encryption engine supports TDES and AES encryption with DUKPT key management. The output from the TriMag III ASIC is encrypted before leaving the read head. The SecureHead is ideal for applications that demand improved system security to meet PCI requirements. ID TECH's SecureHead also provides extended security by sealing the electronics within the head to prevent possible tampering.

### Configurable to Any Application

The SecureHead is available in a variety of spring arrangements that provide flexible mounting and integration options.

## Features and Benefits:

- Available in SPI, USB, and UART
- Bi-directional 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 & cost-effective decoding solution
- High immunity to ambient noise
- Ideal for PCI applications
- Exceptional reading reliability of real world cards
- Available in wire and flexible printed circuit



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## Specifications IDHA-5XXX

### General

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

### Electrical

Power: Operating voltage 3V or 5V  $\pm$  10%  
Current: Active Power Supply Current: 7 mA  
Standby Power Supply Current: 5 mA  
Sleep Power Supply Current: USB sleep 4000  $\mu$ A  
ESD: +4kV discharge to head can

### Environmental

Operating Temperature: -4°F to 158°F (-20°C to 70°C)  
Storage Temperature: -40°F to 158°F (-40°C to 70°C)  
Humidity: Maximum 95% non-condensing

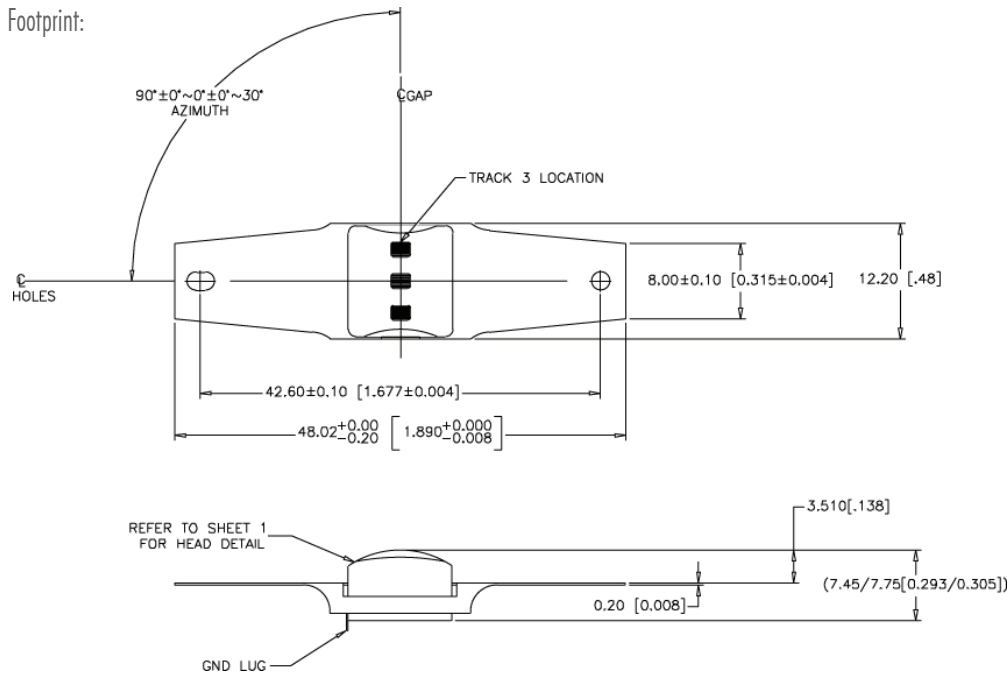
### Reliability

Operating Life: 1,000,000 cycles minimum  
Warranty: One year, parts and labor

### Mechanical

Dimension (L)x(W)x(H): 1.90 inches (48.2 mm)x .48 inches (12.20mm)x .008 inches (.20mm)  
Weight: 5.67 grams

Footprint:



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