



SPH-3 Series

Triple Encrypted Magnetic Head

Features

- High-performance, 32 bit
- ISO7811 triple track read-only magnetic head
- Magnetic stripe F2F decoding
- Data processing rate: 300 ~ 15,000 bps per track
- Low power consumption 3.3V
- 4KB flash memory for key stored
- 32 main keys with 3 encrypting work keys (128 keys programmable)
- UART interface or I²C interface
Baud rate: 9600~115200
- Flexible cable output
- RoHS compliance



Option

- DES/3DES data encrypting capability

Electrical Specifications

Item		Description		
Magnetic card standard		ISO7811 track 1 & 2 & 3		
ISO 7811	Track	Track 1	Track 2	Track 3
	Recording density	210 BPI	75 BPI	210 BPI
	Capacity	79 Characters (7 Bit Code)	39 Characters (5 Bit Code)	107 Characters (5 Bit Code)
	Start / end code	% / ?	; / ?	; / ?
Power supply		3.3V DC / 4.5mA		
Read speed		10 ~ 150 cm/sec		
Lifetime of head		500,000 Passes		
Dimension (mm)		11.8 x 11 x 5.5		11.8 x 11 x 9.5

Pin Assignment

Pin Name	Function
RST	MPU Reset
VCC	Power Supply
GND	Power Ground
TXD / SDA	TTL interface / I2C DATA
RXD / SCL	TTL interface / I2C CLK
ICE_CLK	Programmable Clock pin
ICE_DATA	Programmable Data pin