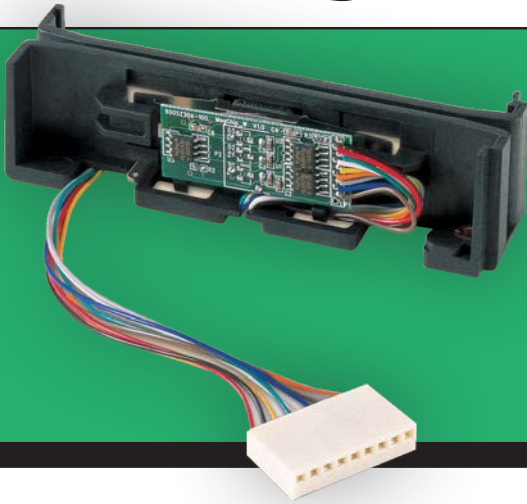


# MSR ASSEMBLIES



## CUSTOMIZABLE MAGSTRIP RAIL

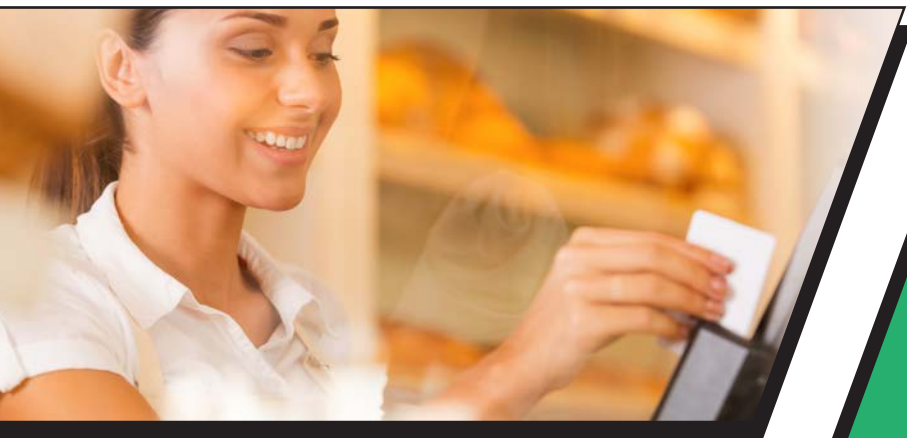
### KEY FEATURES:

- Low-power Trimag Chip™ Technology
- 90mm rail reads up to three tracks of data
- Single or dual read head options
- Configurable data format
- Fully customizable
- Warranted for 1 million (minimum) card passes
- JIS compatible 90mm readers available



# MSR ASSEMBLY SPECS

CARD THICKNESS	.01 to .045 Inches (.25mm to 1.14mm)
COMMUNICATION	SPI, UART, USB
DIMENSIONS	90mm (W) x 24mm (D) x 24mm (H)
HUMIDITY	10% to 98% Relative Humidity, Non-Condensing
MAGSTRIPE & RAIL OPERATING LIFE	1,000,000 Cycles (Minimum)
OPERATING CURRENT	1.1mA per Track When Reading a Card; <30µA in "Sleep" Mode
OPERATING TEMPERATURE	-40°C to 70°C
POWER REQUIREMENTS	Operation from 2.7 to 5.5VDC, Ground 0 VDC (GND); Chassis Ground Connected to GND & Magnetic Head Case; True Automatic Gain Control (AGC) Handles Signal Amplitudes from 1 mV to 1V Peak-to-Peak
READ RATE	Less than One Error in 100,000 Bits on Cards Conforming to ISO 7811 1-5
STANDARD DECODING DENSITIES	Track 1: 210 BPI Track 2: 75 or 210 BPI Track 3: 210 BPI
STORAGE TEMPERATURE	-40°C to 85°C
SWIPE SPEED	3 to 60 Inches Per Second, Bi-Directional



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Value through Innovation

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## CORPORATE HEADQUARTERS

10721 WALKER STREET  
CYPRESS, CA 90630  
T: (714) 761-6368  
TF: (800) 984-1010  
F: (714) 761-8880  
SALES@IDTECHPRODUCTS.COM

## ASIA

+886-3-326-5988 (TAIWAN)  
ASIA@IDTECHPRODUCTS.COM

## LATIN AMERICA

(714) 761-6368  
SALES@IDTECHPRODUCTS.COM

## EUROPE, MIDDLE EAST & AFRICA

EMEA@IDTECHPRODUCTS.COM

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