



# MIFARE® Easy Embedded Reader Boards



## HF READER BOARD FAMILY ENABLES EMBEDDED CONTACTLESS READ/WRITE SOLUTIONS

- **Fast Contactless Transmission** - Optimized data throughput time between data carrier and host
- **Flexibility** - Integrated and optimized HF antenna for a quick and easy integration into applications
- **Cost-effective** - Minimized integration and engineering costs save time and money
- **Simplicity** - Major RFID IC features already implemented for easiest system integration
- **Connectivity** - Integration with OS independent interfacing concept

### KEY FEATURES

- Easy to integrate with full feature support of most transponder ICs
- Optimized to read/write to MIFARE and ISO 14443A standard cards
- Supports the complete portfolio of ISO14443A tag ICs
- Minimized integration costs
- In-field firmware upgrade capability
- Device can be easily connected to a controller or any host system via serial interface
- Two alternative protocols for all components
- Full access to data of contactless memory cards

The MIFARE® Easy Embedded Reader platform offers system integrators and terminal manufacturers a cost-efficient design-in solution for contactless applications utilizing MIFARE technology. Secure, scalable MIFARE Easy reader modules with read/write capability are designed to be easily integrated into compact terminals or handheld devices.

The modules and platform are ideal for automatic fare collection (AFC), ticket vending machines, validators, card printers, mobile devices and various other payment applications.

## SPECIFICATIONS



	Reader Core	Reader Board RS232 Compact
<b>Base Model Number</b>	0701800133-IDT	0701800029-IDT
<b>Operating Frequency</b>	13.56 MHz	
<b>Standards</b>	ISO 14443 A	
<b>Supported Chip types</b>	MIFARE <sup>®</sup> Standard, MIFARE <sup>®</sup> 4k, MIFARE <sup>®</sup> Pro X, MIFARE <sup>®</sup> Ultralight, MIFARE <sup>®</sup> DESFire <sup>®</sup> (serial no. only), SLE66R35, SLE44R35, ISO 14443A Tags	
<b>Host Communication</b>	Point-to-Point	
<b>Communications Interface</b>	C-MOS TTL	RS232
<b>Communications Protocol</b>	Specific ASCII and Binary Protocol	
<b>Communications Parameter</b>	9600 Bit/s to 57600 Bit/s, 8, N, 1	
<b>Firmware Boot-Loader</b>	No	
<b>S/W Driver</b>	Virtual COM port, API - DLL	
<b>Power Supply</b>	5 VDC ± 10% regulated	
<b>Power Consumption</b>	150 mA < 10mA at power down mode	
<b>Reading Distance</b>	Up to 3.74" / 95 mm, depending on tag and antenna	Up to 3.35" / 85 mm depending on tag and antenna
<b>RF Transmission Speed</b>	106 kBit/s	
<b>Antenna</b>	External	Integrated
<b>Input/Output Connector</b>	2 status indicator LED lines, 1 I/O Port	
<b>Size</b>	(H) 1.0 / 1.00" x 1.18" x 0.19" ± (L/W) 0.02" (H) 0.04" 25.5 x 30.0 x 4.8 mm ± (L/W) 0.5	2.76" L x 1.77" W x 0.48 H" ± 0.04" in. 70.0 L x 45.0 W x 12.1 mm H ± 1.0 mm
<b>Weight</b>	0.17 oz ± 10% / 5 g ± 10%	0.56 oz ± 10% / 16g ± 10%
<b>Operating Temperature</b>	-4° F to +176° F / -20° C to + 80° C	
<b>Storage Temperature</b>	-40° F to +185° F / -40° C to + 85° C	
<b>Approvals / Compliances</b>	EN 300-330, CE, FCC, RoHS compliant, UL compliant EN 300-330, CE, FCC Part 15, RoHS compliant	
<b>MTBF</b>	3,000,000 h	200,000 h



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