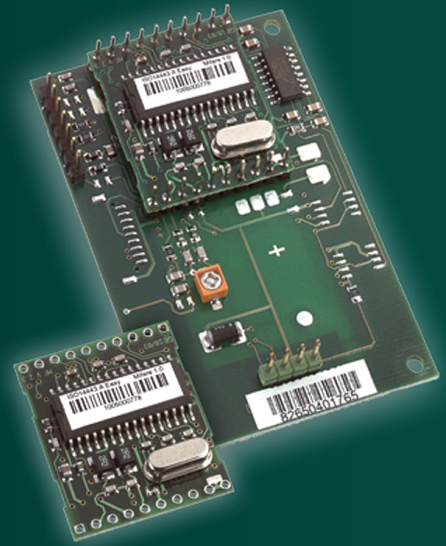


HF | NFC - Reader Module

HID - MIFARE® Easy Reader Boards

- ISO 14443A compliant HF reader platform
- Full support for MIFARE® Standard, Ultralight, 4K, Pro X & more
- Integrated HF antenna for fast design-in
- Point-to-point host communication for easy interfacing
- Minimal integration & engineering effort



HF | NFC - Reader Module

Simple, Scalable HF Reader Integration

The MIFARE® Easy Embedded Reader Boards provide device manufacturers and system integrators with a cost-effective and fully optimized HF contactless solution for MIFARE® deployments. Operating at 13.56 MHz and fully compliant with ISO 14443A, the modules offer fast, reliable read/write performance across the complete ecosystem of MIFARE® chip types, including MIFARE Standard, Ultralight, 4K, Pro X and compatible tag ICs. Their compact design, integrated HF antenna (model dependent), and powerful feature set make them ideal for embedding into terminals, handhelds, ticketing machines and a wide range of OEM devices.

Engineered for simple and efficient integration, the reader boards feature point-to-point communication, flexible ASCII or binary protocols, and driver support via DLL or virtual COM port. With minimized development effort and support for in-field firmware upgrades, the platform enables manufacturers to build scalable, modern HF applications quickly and reliably. Whether used for ticketing, access, validation, or payment-related workflows, the MIFARE Easy Embedded Reader Boards deliver dependable performance and seamless interoperability.

Common Applications

- e-Government
- e-Healthcare
- Single Sign On
- Loyalty Management
- Membership Management
- Access Management



TECHNICAL SPECIFICATIONS

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