The family of 13.56 MHz Multi-ISO Reader Boards supports one of the broadest ranges of transmission protocols and transponder ICs available on the market.

The Multi-ISO Embedded Reader Platform is ideal for access control, as well as Automatic Fare Collection (AFC), ticketing, vending and mobile solutions.

Featuring integrated SAM support that enables state-of-the-art security, the interoperable reader platform supports a wide range of industry standards, including ISO 14443 A/B, ISO 15693, ISO 18000-3 and EPC, allowing the reader to be used for public transport, financial transactions and many other applications.

Multi-ISO reader boards are also optimized for maximum data throughput times on both the air and serial interface, and are available with a variety of antenna size options for easy integration in virtually any mobile or compact application.
## Specifications

### Reader Core

<table>
<thead>
<tr>
<th>Base Model Number</th>
<th>Reader Board RS232</th>
</tr>
</thead>
<tbody>
<tr>
<td>0701800159-1</td>
<td>0701800160</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Operating Frequency</th>
<th>13.56 MHz</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Supported Standards</th>
<th>ISO14443A, ISO14443B, ISO 15693, ISO 18000-3, NFC enabled, ICODE</th>
</tr>
</thead>
</table>

### Supported Chip Types


### Host Communication

- Point-to-Point

<table>
<thead>
<tr>
<th>Communications Interface</th>
<th>CMOS-TTL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications Protocol</td>
<td>Specific ASCII or Binary Protocol</td>
</tr>
</tbody>
</table>

### Firmware Boot-Loader

- Supported via Serial Interface

### S/W Driver

- Virtual COM port, API - DLL (MSVC++)

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>5 VDC ± 10% regulated</th>
</tr>
</thead>
</table>

### Power Consumption

- 90 – 200 mA depending on antenna (without connected SAM) < 10 μA at power down mode
- < 150 mA (without SAM) < 10 mA at power down mode

### Reading Distance

- Up to 90 mm / 3.54”, depending on tag and antenna
- Up to 75 mm / 2.95”, depending on tag

### RF Transmission Speed

- Up to 848 kBit/s

### Antenna

- External
- Integrated

### Input/Output Connector

- 2 status indicator LED lines SAM Interface
- 2 status indicator LED lines SAM Socket

### Size

- 25.5 x 30.0 x 4.8 mm ± (L/W/H) 0.5 (H) 1.0 / 1.00” x 1.18” x 0.19” (L/W/H) 0.02” (H) 0.04”
- 70.0 x 45.0 x 12.1 mm ± 1.0 mm / 2.76 x 1.77” x 0.48” ± 0.04”

### Weight

- 5g ± 5% / 0.01 lb ± 5%
- 17g ± 10% / 0.04 lb ± 10%

### Operating Temperature

- -20°C to + 80°C / -4°F to +176°F

### Storage Temperature

- -40°C to + 85°C / -40°F to +185°F

### Firmware Version

- 1.2.5

### Approvals/Compliances

- RoHS compliant
- ETS 300-330, CE, FCC part 15, RoHS compliant, ISO 14443-1-4

### MTBF

- 3,000,000 h
- 200,000h