



## MultiTag Reader Core



### LF 124 KHZ AND 134.2 KHZ CONTACTLESS READER CORE FOR INDUSTRY & LOGISTICS APPLICATIONS

- **Interoperable** – Supports large portfolio of contactless credentials
- **Simplicity** – Single antenna to support multiple frequencies
- **Upgradable** – Supports in-field firmware upgrades
- **Flexibility** – Small footprint allows simple integration even where space is a constraint

#### FEATURES:

- Supports ISO 11784, 11785 and 18000-2 standards
- Features a variety of interface options for point-to-point connection to any controller or host device
- Multi frequency support for both 125 kHz and 134.2 kHz in FDX or HDX
- Built-in boot loader enables firmware field upgrades via serial interface
- Reading distance is dependant upon the type and size of the antenna and tag

The HID Global MultiTag Reader Core is a contactless proximity read/write module that is designed for embedding into OEM or third party applications. Offering multi frequency capability, the module supports 125 kHz and 134.2 kHz RFID tags in Full- or Half-Duplex (FDX or HDX). Requiring a single antenna coil for both frequencies, the module's simple antenna design needs an external application-specific antenna to operate.

With a small footprint, the module is ideal for systems that require a compact reader core that can be

easily retrofitted into new and existing applications, such as access control, time and attendance, authentication, process and production control, waste management, logistics, distributions and supply chain management or card issuing.

## SPECIFICATIONS

<b>Base Model Number</b>	0701800013 (FDX), 0701800013-1 (FDX+HDX)		
<b>Operating Frequency</b>	125 kHz / 134.2 kHz		
<b>Standards</b>	ISO 11784, ISO 11785, ISO 18000-2		
<b>Chip Type</b>	Hitag 1 Hitag 2 Hitag S Hitag µ	Q5 EM4X02 EM4X05 (ISO FDX B) EM4X50	HDX 134.2 kHz: 64 Bit R/O 64 Bit R/W 1088 Bit Multipage
<b>Typical Read Time</b>	59 ms. Serial No. Hitag S 30 ms. Serial No. Hitag 2 65 ms. Serial No. EM4002	58 ms. Serial No. EM4005 95 ms. Serial No. EM4050 55 ms. Serial No. Q5	93 ms. Serial No. HDX 134.2 kHz 64 Bit R/O
<b>Host Communication</b>	Point-to-Point		
<b>Communications Interface</b>	Serial CMOS-TTL		
<b>Communications Protocol</b>	Specific ASCII or Binary Protocol		
<b>Communications Parameter</b>	9600 Bit/s to 115 kBit/s, 8, N,1		
<b>Firmware Boot-Loader</b>	Supported via Serial Interface		
<b>S/W Driver</b>	No driver required DLL (C++) & Reader Utility Program are available		
<b>Power Supply</b>	5.0 VDC ± 10% regulated		
<b>Power Consumption</b>	Typically 25 mA @ Active Mode with AA ITG Reference-Antenna (depending on used antenna) 7 mA @ Antenna Off < 1 µA @ Power Down Mode		
<b>Reading Distance</b>	< 160 mm, depending on tag type, tag size and antenna size		
<b>Antenna</b>	External		
<b>Input/Output Connector</b>	Bi-directional Read indicator LED, 1 I/O Port		
<b>Size</b>	0.38 x 1.00 x 0.24 in. ± (LxW) 0.02 in. (H) 0.04 in. [30.5 x 25.5 x 6 mm ± (LxW) 0.5 (H) 1.0]		
<b>Weight</b>	0.14 oz ± 10% (4 g. ± 10%)		
<b>Operating Temperature</b>	-13° F to +176° F (-25°C to + 80°C)		
<b>Storage Temperature</b>	-40 F° to +185° F (-40°C to + 85°C)		
<b>Approvals/Compliances</b>	RoHS compliant		

