

MultiTag Reader Core

LF 125kHz and 134.2 kHz
Contactless Reader Core for
Industry & Logistics Applications

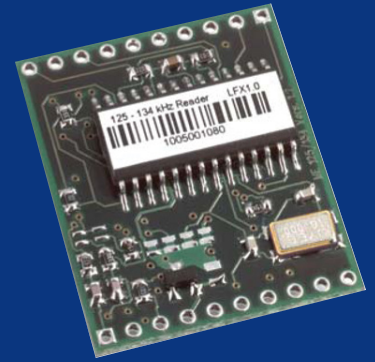


The HID Global MultiTag Reader Core is a contactless proximity read/write module that is designed for embedding into OEM or third party applications. Offering multi frequency capability, the module supports 125 kHz and 134.2 kHz RFID tags in Full- or Half-Duplex

(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.

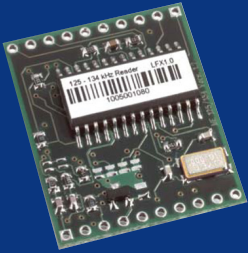
- **Interoperable** – Supports large portfolio of contactless credentials
- **Simplicity** – Single antenna to support multiple frequencies
- **Upgradable** – Supports in-field firmware upgrades
- **Flexibility** – Small footprint allows simple integration even where space is a constraint



KEY 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

MultiTag Reader Core



Base Model Number	0701800013-1 (FDX+HDX)		
Operating Frequency	125 kHz / 134.2 kHz		
Standards	ISO 11784, ISO 11785, ISO 18000-2		
Chip Type	Hitag 1 Hitag 2 Hitag 5	Q5 EM4X02 EM4X05 (ISO FDX B)	HDX 134.2 kHz: 64 Bit R/O 64 Bit R/W 1088 Bit Multipage
Typical Read Time	59 ms. Serial No. Hitag S 30 ms. Serial No. Hitag 2 65 ms. Serial No. EM4002	58 ms. Serial No. EM4005 55 ms. Serial No. Q5	93 ms. Serial No. HDX 134.2 kHz 64 Bit R/O
Host Communication	Point-to-Point		
Communications Interface	Serial CMOS-TTL		
Communications Protocol	Specific ASCII or Binary Protocol		
Communications Parameter	9600 Bit/s to 115 kBit/s, 8, N,1		
Firmware Boot-Loader	Supported via Serial Interface		
S/W Driver	No driver required DLL (C++) & Reader Utility Program are available		
Power Supply	5.0 VDC ± 10% regulated		
Power Consumption	Typically 25 mA @ Active Mode with AA ITG Reference-Antenna (depending on used antenna) 7 mA @ Antenna Off < 1 µA @ Power Down Mode		
Reading Distance	< 160 mm, depending on tag type, tag size and antenna size		
Antenna	External		
Input/Output Connector	Bi-directional Read indicator LED, 1 I/O Port		
Size	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]		
Weight	0.14 oz ± 10% (4 g. ± 10%)		
Operating Temperature	-13° F to +176° F (-25°C to + 80°C)		
Storage Temperature	-40 F° to +185° F (-40°C to + 85°C)		
Approvals/Compliances	RoHS compliant		

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