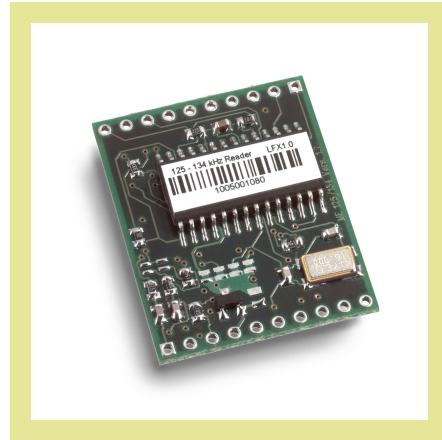# ACG LF MultiTag OEM Module

RDLO-0101N0-02

The ACG LF MultiTag OEM Module is a contact less proximity read/write device that, with its multi frequency capability, supports most of the available 125kHz and 134.2kHz tags from different suppliers. The module needs an external application specific antenna to operate. Therefore the antenna design has been simplified, requiring only a single antenna coil for both frequencies. The small form factor enables a design in even into very compact systems. By using the serial interface the device can be connected to a controller or any host system easily. The built in boot-loader enables firmware field upgrades via the serial interface.

Typical Applications

- Access Control
- Time and Attendance
- Authentication
- Animal Identification

- Logistics
- Process & Production Control
- Distribution & Supply Chain Management
- Mobile Applications & Card Issuing

Technical Data

Part Number	RDLO-0101N0-02		
RF Transmit Frequency	125kHz, 134.2kHz		
Supported Standards	ISO 11784, ISO 11785, ISO 18000-2		
Supported Tag-ICs	Hitag 1 Hitag 2 Hitag S	Q5 EM4X02 EM4X05 (ISO FDX B) EM4X50	TI-RFID Systems 134.2 kHz 64Bit R/O TI-RFID Systems 134.2 kHz 64Bit R/W TI-RFID Systems 134.2 kHz 1088Bit Multipage
Typical Read Time	59ms Serial No. Hitag S 30ms Serial No. Hitag 2 65ms Serial No. EM4002	58ms Serial No. EM4005 95ms Serial No. EM4050 55ms Serial No. Q5	93ms Serial No. TI-RFID Systems 134.2 kHz 64Bit R/O
Host Communication	Point-to-Point		
Communications Interface	CMOS-TTL Serial Interface		
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		
Driver	No driver required		
S/W	DLL (C++) & Reader Utility Program are available		
Power Supply	5.0 VDC ± 10% regulated		
Current Consumption	Typ. 25mA @ Active Mode with ACG Testantenna (depending on used antenna) 7mA @ Antenna Off < 1µA @ Power Down Mode		
Reading distance	< 160 mm, depending on tag type, tag size and antenna size		
Antenna	External		
Input/Output Connector	Bidirectional Read indicator LED, 1 I/O Port		
Size	(LxWxH) 30.5x25.5x6mm ± (LxW) 0.5 (H) 1.0 / 1.38x1.00x0.24Inch ± (LxW) 0.02 (H) 0.04		
Weight	4 g ± 10% / 0.01 lb ± 10%		
Operating Temperature	-25°C to + 80°C / -13 F to +176 F		
Storage Temperature	-40°C to + 85°C / -40 F to +185 F		
Firmware Version	1.0		
Approvals/Compliances	RoHS compliant		

For more information, please contact the sales office nearest you or visit our website: www.acg.de/RFID