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aptiQ™

OEM100 module

Overview

The OEM100 module is an embeddable RFID reader component useful for manufacturers creating custom RFID products.

The OEM100 module contains both 125 kHz proximity, 13.56 MHz contactless smart card capability and supports ISO Standard 14443 technologies.

The OEM100 module provides compatibility with certain HID® proximity protocols, GE/CASI ProxLite®, AWID®, Lenel®, and many 13.56 MHz technologies including aptiQ™ smart cards using MIFARE DESFire™ EV1 and MIFARE®.

By offering 125 kHz and 13.56 MHz technology in a single compact reader module, the OEM100 module gives a product the flexibility to be used in many of the most popular credential technology environments.
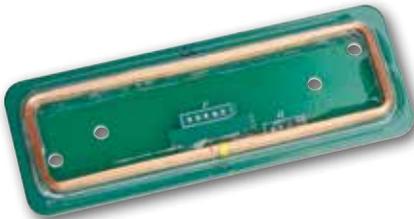
Features and benefits

- 125 kHz frequency
- 13.56 MHz frequency
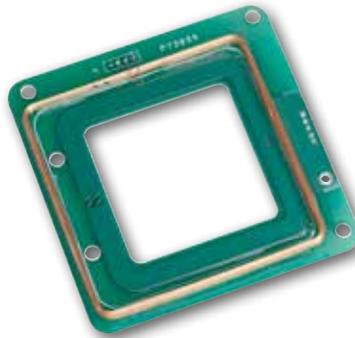- Supports the most popular proximity and smart card formats on the market today

OEM100 Specifications

Dimensions	Main logic board	1.4" x 2.05" x 0.315" (35.6 mm x 52.1 mm x 8 mm)
	Antenna board #1 HG rectangular	1.35" x 3.6" x 0.2" (34.3 mm x 91.4 mm x 5.1 mm)
	Antenna board #2 square	2.85" x 2.83" x 0.2" (72.4 mm x 71.9 mm x 5.1 mm)
125kHz Technologies	GE/CASI ProxLite® HID® Proximity AWID® Proximity LENEL® Proximity	
13.56MHz Technologies	aptiQ™ using MIFARE® Classic or MIFARE DESFire™ EV1 (with PACSA enabled) PIV (FASC-N output options) PIV-1 (GUID output options) CSN for HID iCLASS®, ISO 15693, ISO 14443	

Card	Card type	Read range
125kHz	ASK, FSK	Up to 4.5" (11.4 cm)
13.56MHz	ISO 15693	Up to 3.0" (7.6 cm)
13.56MHz	ISO 14443A MIFARE® Standard	Up to 2.0" (5.1 cm)
13.56MHz	ISO 14443A aptiQ™ smart cards using MIFARE DESFire™ EV1	Up to 1.5" (3.8 cm)

Electrical specifications	Operating temperature: -31 to 149 F (-35 to 65 C) Frequency: 125kHz and 13.56MHz Voltage input: 5-16V Average system current: 95 mAmps (180 mAmps max) Communication: Wiegand, RS485, or UART-TTL

Antenna options:

OEM100 REC-LF

OEM100 SQR-LF

Ordering information

OEM100 REC-LF - OEM100 Module + HG Antenna (rectangular antenna)
OEM100 SQR-LF - OEM100 Module + OEM Antenna (square 2x2 antenna)

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a $2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises more than 25 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com.**

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