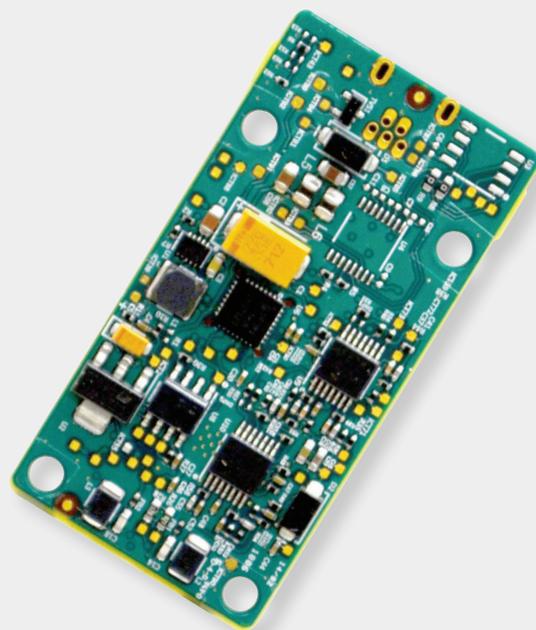# OEM 200 module

## Overview

Today's customers want to extend the use of credentials beyond physical access control to maximize their investment and provide the added convenience of using a single credential for multiple applications. To help meet customers' needs, the OEM 200 module can be embedded into third-party products so that solution providers can seamlessly support RFID technology as part of their offering.

To help meet a variety of embedded environments, two antenna sizes are available for use with the OEM 200 module; a 90mm and 80mm. And, to help meet end-user credential requirements, each antenna size is available in either a 13.56 MHz smart card technology version (only), or multi-technology version which combines 125 kHz proximity and 13.56 MHz smart card technology.

Both the smart card only and multi-technology antennas interface with Schlage® smart credentials (MIFARE Classic®, MIFARE Plus® and MIFARE® DESFire® EV1) and can read the card serial numbers (CSN) of a variety of smart cards from other manufacturers. Additionally, the OEM 200 module is already NFC compatible and able to communicate with NFC-enabled phones.

The OEM 200 has been designed for easy integration, but should you need any assistance, our knowledgeable application engineering team is ready to assist you with any design or technology questions you may have.
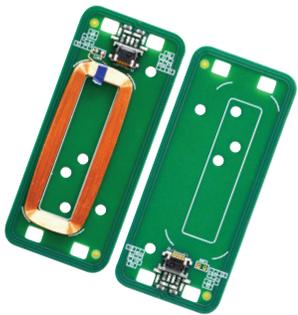
## Features and benefits

- Available with two antenna sizes; 80mm or 90mm; both antenna sizes come in multi-tech and smart only versions

- Smart Only Version: Reads 13.56 MHz smart credentials - MIFARE Classic, MIFARE Plus, MIFARE DESFire EV1 and card serial number (CSN) of other manufacturers smart credentials

- Multi-Technology Version: Reads 125 kHz proximity credentials in addition to same credentials as the smart only version

- Compatible with NFC-open smart phones using Schlage or aptiQ mobile credentials

- Wiegand and UART-TTL output available for simple interface with most third-party products

- Antenna connects easily to main board with flat flexible cable (FFC)  (provided)

- LEDs for debugging and diagnostics.

- Allegion integration support
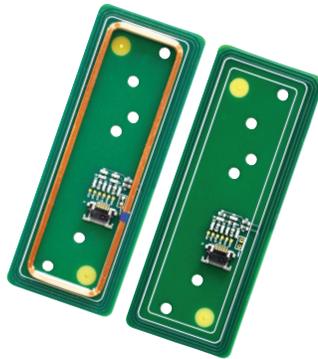
## OEM200 specifications

| Dimensions | Main board | 1.11" x 2.165" x 0.39" (28.0mm x 55.0mm x 9.9mm) |
| | 80mm antenna board | 1.35" x 3.125" x 0.14" (34.3mm x 79.4mm x 3.4mm) |
| | 90mm antenna board | 1.35" x 3.60" x 0.14" (34.3mm x 91.4mm x 3.4mm) |
| **125 kHz Technologies** | Schlage and XceedID proximity<br>GE/CASI ProxLite®<br>HID® Proximity<br>AWID® Proximity<br>LENEL® Proximity | |
| **13.56 MHz Technologies** | Schlage and aptiQ® using MIFARE Classic, MIFARE DESFire EV1 (with PACSA enabled) or MIFARE Plus<br>Schlage and aptiQ mobile credentials<br>PIV (FASC-N output options)<br>PIV-1 (GUID output options)<br>CSN for HID iCLASS®, ISO 15693, ISO 14443 | |

**Card read range in free space\***

| Card | Card type | Read range |
|------|-----------|------------|
| 125 kHz | ASK, FSK | Up to 2.75" |
| 13.56 MHz | ISO 15693 | Up to 2.75" |
| 13.56 MHz | ISO 14443A MIFARE Standard | Up to 3.25" |
| 13.56 MHz | ISO 14443A MIFARE DESFire EV1 | Up to 1.25" |
| 13.56 MHz | ISO 14443A MIFARE Plus | Up to 1.0" |

| Electrical specifications | Operating temperature: -31 to 149ºF (-35 to 65ºC)<br>Frequency: 125 kHz and 13.56 MHz<br>Voltage input: 5-16V<br>Average system current: 50 mAmps (180 mAmps max)<br>Communication: Wiegand or UART-TTL |
|---|---|

\*  Antenna location inside end product and surrounding materials will affect the read range performance.

## Antenna options:



80 mm antenna
(smart only or multi-technology)



90 mm antenna
(smart only or multi-technology)

## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®.  Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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