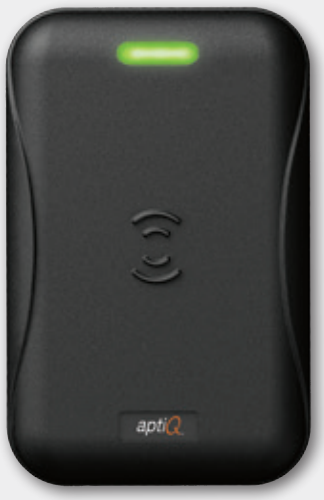
ALLEGION™

aptiQ™

# aptiQ™

## Multi-technology readers




## Overview

aptiQ™ multi-technology readers by Allegion are designed to simplify your access control solutions. Transition your system from proximity to smart card technology at your own pace without having to change out readers as new technologies are available. aptiQ readers handle all applicable ISO standards (14443A, 14443B, 15693), are FIPS 201-1 compliant and are versatile enough to read 125kHz proximity and 13.56MHz contactless smart cards in a single unit. aptiQ multi-technology readers interface with aptiQ smart credentials (MIFARE® classic and MIFARE DESFire™ EV1) and can read the card serial numbers of a variety of smart cards from other manufacturers, making your next upgrade in technology simple and seamless. Additionally, aptiQ readers are already NFC compatible and able to communicate with NFC-enabled phones whenever you're ready to take that step.

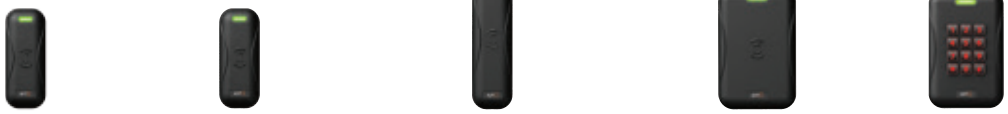
aptiQ multi-technology readers use an open architecture platform designed to work with industry standards and common access control system interfaces. Multiple aptiQ reader form factors are designed to fit a variety of placement needs, with an attractive modern design which will complement any facility's architecture and décor. aptiQ readers are very easy to install with the quick-connect design and a standard wiring color scheme that most technicians are already accustomed to. But if you do have questions, you'll never worry about lack of service or assistance. As always, our knowledgeable sales and support staff is ready to assist you with any design or technology questions you may have.

Note: Magnetic stripe multi-technology readers also available.



## Features and benefits

- Accommodates interior, exterior, metal, and non-metal installation environments
- Recognizes most proximity credentials, and aptiQ smart credentials (MIFARE® classic and MIFARE DESFire™ EV1)
- FIPS 201-1 compliant
- NFC compatible, reads aptiQmobile™ credentials
- Quick-connect design for easy installation
- Simple wiring – color scheme is identical to most readers in the market
- Easy-to-install mounting bracket
- Tri-state LED (red, green, amber) visual indicator and audio feedback representing status and activity information, easily discernible for the audibly or visually impaired
- Wiegand output for simple interface with most access control panels
- Multiple reader cover color options
- Limited lifetime warranty
- Multi-technology readers may also be ordered with RS-485 capability



| Model* | PR10 | SM10 | MT11 | MT15 | MTK15 |
|---|---|---|---|---|---|
| Reader type | Proximity mini-mullion* | Smart mini-mullion* | Multi-technology mullion | Multi-technology single gang | Multi-technology single gang keypad |
| Frequency | 125 kHz | 13.56 MHz | 13.56 MHz and 125 kHz | | |
| FIPS 201-1 compliant | No | Yes | | | |
| Standard default PIV output | N/A | 75 bit PIV** | | | |
| Standards | N/A | ISO 14443A, 14443B, 15693 | | | |
| Certifications | FCC Certification • IC Certification • UL 294 Listed • R&TTE Directive (15 EU Countries) • CE Mark • IP65 | | | | |
| Voltage range | 5-16 VDC | | | | |
| Power supply | Linear DC | | | | |
| Current requirement (at 12 VDC and 25 C; mAmps) | Avg. 65 mA Peak 110 mA | Avg. 95 mA Peak 195 mA | MT11 Avg. 100 mA Peak 170 mA / MT11-485 Avg. 115 mA Peak 145 mA | MT15 & MT15-485 Avg. 120 mA Peak 200 mA | MTK15 and MTK15-485 Avg. 120 mA Peak 230 mA |
| Read range | Proximity: Up to 3" (7.5 cm) | MIFARE: Up to 3" (7.5 cm) DESFire EV1: Up to 2" (5.1 cm) | Proximity: Up to 5" (12.7 cm) MIFARE: Up to 4" (10 cm) | Proximity: Up to 5" (12.7 cm) MIFARE: Up to 4" (10 cm) | DESFire EV1: Up to 2" (5.1 cm) PIV credential: Up to 2.5" (6.5 cm) |
| Cable specification | 18 AWG, 5 conductor stranded/shielded | | | | |
| System interfaces | Wiegand | Wiegand / Clock & Data | Wiegand / Clock & Data / RS-485*** (OSDP) | | |
| Cabling distance | Wiegand output: 500 ft. (152 m) | | | | |
| Physical dimensions (H x W x D) | 4.26" x 1.72" x 0.81" 10.8 cm x 4.4 cm x 2.1 cm | 4.26" x 1.72" x 0.81" 10.8 cm x 4.4 cm x 2.1 cm | 5.91" x 1.72" x 0.81" 15 cm x 4.4 cm x 2.1 cm | 5.1" x 3.25" x 0.76" 12.9 cm x 8.3 cm x 1.9 cm | 5.1" x 3.25" x 0.76" 12.9 cm x 8.3 cm x 1.9 cm |
| Operating temperatures | -40° to 158°F (-40° to 70°C) | | | | |
| Weight | 4.1 oz | 3.9 oz | 5.7 oz | 9.1 oz | 9.3 oz |
| Material | PBT Polymer | | | | |
| Technologies supported in default mode | | | | | |
| Schlage Proximity | ■ | | ■ | ■ | ■ |
| XceedID™ Proximity | ■ | | ■ | ■ | ■ |
| HID® Proximity | ■ | | ■ | ■ | ■ |
| GE/CASI ProxLite® | ■ | | ■ | ■ | ■ |
| AWID® Proximity | ■ | | ■ | ■ | ■ |
| LenelProx® | ■ | | ■ | ■ | ■ |
| aptiQmobile | | ■ | ■ | ■ | ■ |
| Schlage MIFARE® | | ■ | ■ | ■ | ■ |
| XceedID MIFARE® | | ■ | ■ | ■ | ■ |
| aptiQ smart cards using MIFARE™ | | ■ | ■ | ■ | ■ |
| aptiQ smart cards using MIFARE DESFire™ EV1 | | ■ | ■ | ■ | ■ |
| DESFire® CSN | | ■ | ■ | ■ | ■ |
| HID iCLASS® CSN | | ■ | ■ | ■ | ■ |
| Inside Contactless PicoTag® CSN | | ■ | ■ | ■ | ■ |
| ST Microelectronics® CSN | | ■ | ■ | ■ | ■ |
| Texas Instruments Tag-It® CSN | | ■ | ■ | ■ | ■ |
| Phillips I-Code® CSN | | ■ | ■ | ■ | ■ |

## Color options

Black (standard)

Cool tone gray

Cream

Warm tone brown

* Some features and benefits listed on the front may not be applicable to the smart-only and proximity-only readers.

** Other output options available through configuration.

*** RS-485 model numbers include "-485" after the original model number. For example, MT11-485 is the RS-485 version of the multi-technology mini-mullion reader. Multi-drop, Open Standard Device Protocol (OSDP).

## 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 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com.**

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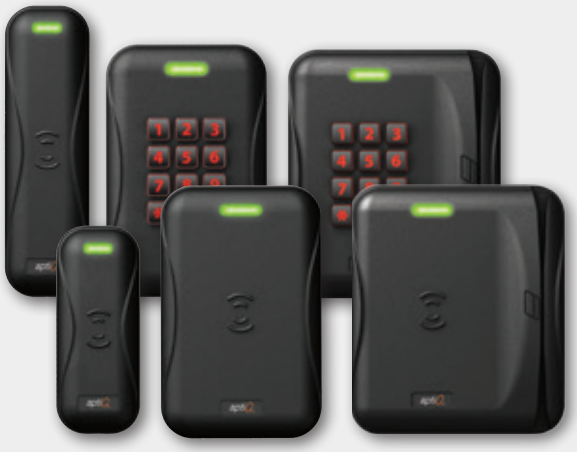
# FIPS 201-1 compliant readers



## Overview

aptiQ™ smart and multi-technology readers by Allegion have been approved by the U.S. Government under HSPD-12 for FIPS 201-1 compliance as PIV transparent readers. PIV compliance is available on six reader models, including the SM10 smart mini-mullion, MT11 multi-technology mullion, MT15 multi-technology single gang, MTK15 multi-technology single gang with keypad, MTMS15 multi-technology magnetic stripe and MTMSK multi-technology magnetic stripe with keypad.

aptiQ™ multi-technology readers are a unique and critical component of successful security upgrades in all sectors of the government. FIPS 201-1 is a Federal Information Processing Standard ("FIPS") developed by the National Institute of Standards and Technology ("NIST") to satisfy the requirements of HSPD-12, a Homeland Security Presidential Directive. One of the main objectives of HSPD-12 is to ensure government-wide interoperability for information technology and security through the implementation of a range of federal standards and product requirements. FIPS 201-1 seeks to improve identification and authentication of Federal employees and contractors for access to the federal facilities and information systems.

aptiQ™ FIPS 201-1 PIV compliant readers are available with multiple data output formats, which provide unprecedented versatility within the PIV & PIV-I specification.

In addition to reading approved FIPS 201-1 PIV & PIV-I credentials, aptiQ™ smart and multi-technology readers are also compatible with many standard proximity and leading smart card technologies (see specifications). The ability to read multiple existing card types and PIV & PIV-I cards simultaneously is a tremendous benefit to those agencies looking to transition seamlessly from older proximity technologies to new, mandated PIV & PIV-I credentials. A mixed population of old prox credentials and new PIV & PIV-I credentials is unavoidable during the government's multi-year upgrade path to FIPS 201-1 compliance.

## Features and benefits

- Compatibility: compatible with industry standard magnetic stripe technology (tracks 1, 2, or 3) and 125 kHz and 13.56 MHz contactless technologies
- Read range: up to 6 inches (proximity), up to 2 inches for PIV & PIV-I credentials
- Tri-state LED (red, green, amber): visual indicator and audio feedback representing status and activity information
- Tamper detection
- Environment: accommodates interior, exterior, metal and non-metal installation environments

# Additional features

- Compliance: compatible with applicable ISO standards
- Compatible with all access control systems that support Wiegand format
- Warranty: limited lifetime against defective workmanship and materials
- Additional technologies supported
  - Magnetic stripe
    - Track 1, 2, or 3
  - Proximity
    - Schlage
    - XceedID®
    - HID® Proximity (certain formats)
    - GE/CASI ProxLite™
    - AWID® Proximity
  - Smart card (secure sector only)
    - Schlage
    - aptiQ™ using MIFARE®
    - aptiQ™ using MIFARE DESFire™ EV1
    - FIPS 201-1/PIV & PIV-I
  - Smart card (card serial number only)
    - DESFire® application HID iClass®
    - Inside contactless PicoTag™

# Ordering information

- **SM10** - Smart mini-mullion reader
- **MT11** - Multi-technology mullion reader
- **MT15** - Multi-technology single gang reader
- **MTK15** - Multi-technology single gang reader with keypad
- **MTMS15** - Multi-technology magnetic stripe reader
- **MTMSK15** - Multi-technology magnetic stripe reader with keypad

aptiQ™ PIV readers have been approved by the GSA lab as compliant with FIPS 201-1 and the appropriate PIV credentials.

Please see individual data sheets for each reader for more specific technical information.



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