

aptiQ™

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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.

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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

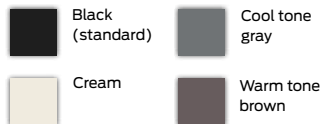


Model*	PR10	SM10	MT11	MT15	MTK15	
Reader type	Proximity mini-mullion*	Smart mini-mullion*	Multi-technology mullion	Multi-technology single gang	Multi-technology single gang keypad	
Frequency	125 kHz	13.56 MHz		13.56 MHz and 125 kHz		
FIPS 201-1 compliant	No			Yes		
Standard default PIV output	N/A			75 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



* 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.

