



aptiQ™ Multi-Technology Readers

Overview

aptiQ™ Multi-Technology Readers by Ingersoll Rand Security Technologies 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 XceedID® MIFARE® Classic smart cards, the ultra-secure aptiQ™ 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 & support staff is ready to assist you with any design or technology questions you may have.



Features & Benefits

- Accommodates interior, exterior, metal, and non-metal installation environments
- Recognizes most proximity credentials, XceedID® MIFARE® Classic smart credentials, and aptiQ™ MIFARE DESFire™ EV1 smart credentials
- FIPS 201-1 Compliant
- NFC Compatible
- 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	MTT1	MTT5	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	MTT1 Avg. 100 mA MTT1 Peak 135 mA	MTT1-485 Avg. 115 mA MTT1-485 Peak 145 mA	MTT5 & MTT5-485 Avg. 120mA MTT5 & MTT5-485 Peak 200mA MTK15 & MTK15-485 Avg. 120mA MTK15 & MTK15-485 Peak 230mA
Read Range (Based off of MRD)	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 (HWD)	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	
Operating Temperatures			-31 to 151F (-35 to 67C)		
Weight (lbs)	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®	Schlage MIFARE® Secure Sector XceedID™ MIFARE® Secure Sector aptiQ™ Smart Cards using MIFARE DESFire™ EV1 with PACSA DESFire® CSN • HID iClass® CSN Inside Contactless PicoTag® CSN ST Microelectronics® CSN Texas Instruments Tag-It® Serial Number Phillips I-Code® CSN	Schlage Proximity • XceedID™ Proximity • HID® Proximity GE/CASI ProxLite® • AWID® Proximity • LenelProx®	Schlage MIFARE® Secure Sector • XceedID™ MIFARE® Secure Sector aptiQ™ Smart Cards using MIFARE DESFire™ EV1 with PACSA • DESFire® CSN HID iClass® CSN • Inside Contactless PicoTag® CSN • ST Microelectronics® CSN Texas Instruments Tag-It® Serial Number • Phillips I-Code® CSN	

Color Options

Black (Standard) Cream Cool Tone Gray Warm Tone Brown

aptiQ™ Smart Technology from Ingersoll Rand enhances the intelligence of products through a secure, open architecture design in readers, credentials, and smart phone applications. aptiQ™ seamlessly interfaces and communicates with a variety of products, and provides a platform that easily adapts as new innovations enter the marketplace.

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* 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, MTT1-485 is the RS-485 version of the multi-technology mini-mullion reader. Multi-drop, Open Standard Device Protocol (OSDP).

