

OmniAssure™

Contactless Smart Card Readers



Smart card technology is ideally suited for access control, logical (PC) access, storage of biometric templates, secure IDs with embedded tamper-proof digital photos, parking, ePurse and many other applications requiring secure and reliable read/write cards.

Honeywell's OmniAssure™ readers eloquently combine compliance with convenience. Their U.S. patent-pending flash-on-card design make OmniAssure readers the easiest to use in today's market. With flash-on-card, the reader's flash firmware can be easily updated to support changing government standards without removing the readers from the wall. With other smart card readers, the configuration cards only change parameter settings for the currently installed firmware.

OmniAssure readers can retrofit most standard Honeywell or Wiegand-output proximity systems and are easy to install without the need to rewire. Reader versions include smart card reader only, smart card reader plus keypad, fingerprint smart card reader, and a multi-technology smart card/prox transit reader. All wall-mount readers are sold as mullion with an optional gangbox mounting kit.

The Fingerprint smart card reader is easy to install. The fingerprint template is stored on the Mifare card so there is no need for extra RS485 datalines to connect multiple fingerprint readers for fingerprint template database sharing. Enrollment is easy without

software. Just use the enrollment card supplied with the reader to store the fingerprint template on the user's card. Up to two fingerprints can be stored on the standard Mifare card.

Because of flash-on-card design, OmniAssure readers are the easiest to use in today's market. With flash-on-card, the reader's flash firmware can be easily updated to support changing needs in security without removing the readers from the wall. Using these flash-on-cards a dealer is capable of designing their own systems for customers with high level security requirements. The readers also feature built-in-hardware to support (future) RS485 protocols such as S-NET and both the reading/writing of smart card credentials. This protects the OmniAssure solution for changing needs in the future.

Compatible cards include:

- Open standard ISO14443 technologies (Mifare® Classic, DESFire®, and SmartMX®)
- 125 kHz HID® Prox

Configurable output formats and protocols include:

- Wiegand
- S-Net
- Clock & Data
- ISO7811 Clock & Data ABA Track 2 emulation
- Serial (RS232/RS422/RS485)

FEATURES

- Easy to order secure Mifare cards like proximity cards (off the shelf ordering and configuring)
- Easy to order Mifare reader (one reader only)
- Configuration of cards can be used to manage security keys and change the operating characteristics of the reader
- Project management is an available option
- Easy fingerprint management without software
- Flash-on-card to update reader firmware to evolving smart card standards
- Mullion and switch plate mounting
- Built-in audible buzzer
- Two LEDs (red and green)
- Hidden mounting screws deter vandalism
- Potted for superior weather resistance
- Configurable output
 - Wiegand
 - S-NET

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BENEFITS

Easy to use sector solution yet cost-effective

When installers get requested for a Mifare solution often they suggest Mifare Card Serial Number (SNR) reading, which seems easy. The SNR solution however provides about the same level of security as standard proximity cards and is usually time-consuming to implement into the customer's access control system.

Multi-technology = transition friendly

Multi-technology OmniAssure readers transition easily from 125 kHz proximity to smart card technologies by interchangeably reading 125 kHz proximity and contactless smart cards. In facilities with a large ratio of cardholders to readers, this approach is often more cost-effective than applying smart tags/stickers to 125 kHz proximity cards.

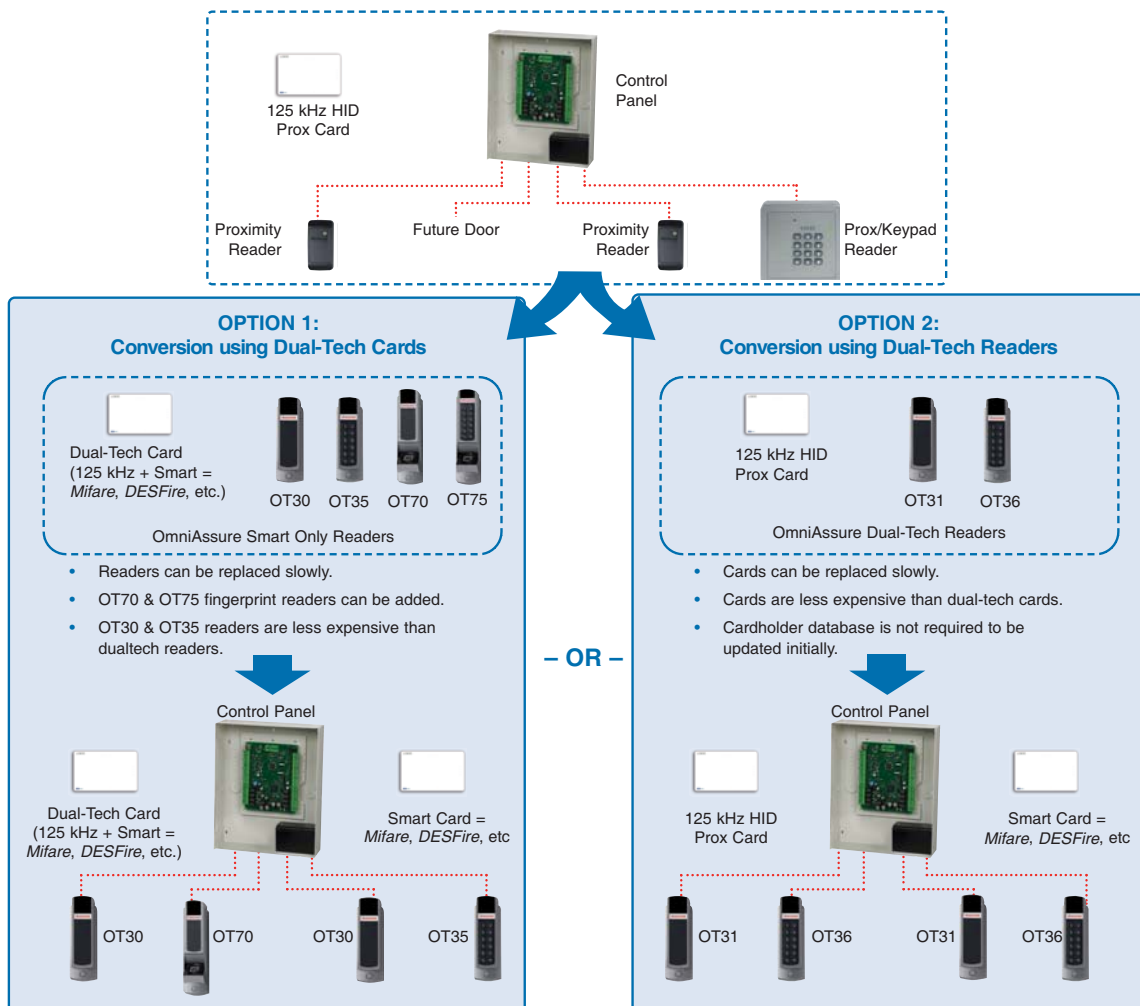
World wide sourcing = standard open

ISO14443 is open because NXP Semiconductors has sold Mifare® Classic chips to multiple reader manufacturers and has licensed DESFire, and SmartMX technologies to multiple reader manufacturers. This ensures longevity of an ISO14443 solution with multiple sourcing options. Hence the Mifare technology is available to many manufacturers and vendors for multi-application use of the Mifare Card.

Simple and convenient biometric solution

The OmniAssure biometric reader provides a fingerprint solution for up to two fingerprints on a 1k Mifare card. Because the fingerprint template is stored on the Mifare card the enrollment is done once for the whole project on one of the fingerprint readers. For fingerprint enrollment on the Mifare card an enrollment card is used. There is no need for a special enrollment reader with software, saving costs and installation time.

MIGRATION OPTIONS



SPECIFICATIONS

	OM30, OT35 Mifare Card	OT31, OT36 Mifare + 125 kHz Prox	OT70, OT75 Fingerprint on Mifare
Dimensions Mullion mount	14.2 x 4.62 x 2.5 cm 5.59 x 1.81 x 0.98 inch		19.25 x 5.05 x 4.3 cm 7.58 x 1.99 x 1.69 inch
Dimensions Gangbox mount	14.2 x 7.32 x 2.8 cm 5.59 x 2.87 x 1.1 inch		21.8 x 7.6 x 0.8 cm 8.58 x 2.99 x 0.31 inch
Compatible Cards	Mifare®, DESFire® (SNR), SmartMX® (SNR)	Mifare®, DESFire® (SNR), SmartMX® (SNR), HID® Prox	Mifare®, DESFire® (SNR), SmartMX® (SNR)
Max. Read Range			
ISO 14443A Card (Mifare®)	Up to 3 cm (1.18 inch)	Up to 1.1 cm (0.43 inch)	Up to 3 cm (1.18 inch)
ISO 14443B Card (DESFire®, SmartMX®)	Up to 3 cm (1.18 inch)	Up to 1.1 cm (0.43 inch)	Up to 3 cm (1.18 inch)
1326 ProxCard II Clam Shell	N/A	Up to 4 cm (1.5 inch)	N/A
1386 ISOProx® II PVC Card	N/A	Up to 2.5 cm (1 inch)	N/A
ISO Standard Support	14443A, 14443B		
Data Encryption	Available between card and reader and between reader and host		
PIN	4-bit burst, 8-bit burst		
Biometrics			
Number of Fingerprint Templates & Size	N/A		Up to 2 templates stored on smart card depending upon card type and fingerprint technology; 752 bytes for minutia; 350 bytes for user templates and records
Enrollment Time	N/A		< 3 seconds
Equal Error Rate (EER)	N/A		0.1%; Adjustable
False Acceptance/ Rejection Rates	N/A		Adjustable
Verification Time	N/A		< 1 second
Regulatory Approvals	UL/cUL, FCC, CE	UL/cUL*, FCC, CE	UL/cUL, FCC, CE
Operating Temperature	-20 to 60°C (-4 to 140°F)		0 to 60°C (32 to 140°F)
Operating Humidity	5 – 95% relative humidity, non-condensing		30-80%, non-condensing
IP Rating	IP67 if connector is sealed		IP42, Indoor use only
Operating Voltage Range	4.5 – 16 VDC		8 – 24 VDC
Power Consumption	1.5 Watts average; 2.0 Watts peak		2.5 Watts average, 5 Watts peak
Tamper Output	Optional Tamper Switch Accessory		
Output Interfaces (all built-in)	Wiegand, Clock & Data, RS485/RS232/RS422		
Warranty	Limited Lifetime		2 years

¹ Actual operating distance will vary depending upon installation environment and proximity to metal.

² = submitted/pending

³ See Honeywell Access Systems' Sales Policy for complete warranty details.

⁴ Fingerprints supported on Mifare and DESFire.

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ORDERING

HONEYWELL MIFARE READERS

MIFARE READER FOR HONEYWELL SECTOR AND MIFARE SNR:

OT30HONAM	Mifare reader
OT35HONAM	Mifare reader with keypad

MIFARE TRANSIT READER FOR HONEYWELL SECTOR AND 125 KHZ HID PROX:

OT31HONAM	Mifare transit reader
OT36HONAM	Mifare transit reader with keypad

MIFARE BIOMETRICS READER FOR HONEYWELL SECTOR AND FINGERPRINT:

OT70HONAM	Mifare fingerprint reader
OT75HONAM	Mifare fingerprint reader with keypad

OMNIASSURE MISCELLANEOUS READER PARTS

IEMOUNT	U.S. gangbox mounting kit for OT30, OT31, OT35, OT36 models
IEMOUNT2	U.S. gangbox mounting kit for OT70, OT75 models
IETAMPER	Tamper switch accessory for all readers

MIFARE CREDENTIALS

MIFARE HONEYWELL SECTOR CARDS:

OFP1N26	Mifare 1K PVC Card, 26 bit format
OFP1N34	Mifare 1K PVC Card, 34 bit format
OFP4N26	Mifare 4K PVC Card, 26 bit format
OFP4N34	Mifare 4K PVC Card, 34 bit format

MIFARE UNPROGRAMMED CARDS:

OFP1N00	Unprogrammed Mifare 1K PVC Card
OFP1M00	Unprogrammed Mifare 1K PVC Card with Unencoded Magnetic Stripe
OFP4N00	Unprogrammed Mifare 4K PVC Card
OFP4M00	Unprogrammed Mifare 4K PVC Card with Unencoded Magnetic Stripe

For Mifare specialised project management tools and more Mifare card options please consult with your local representative
SNR = Serial Number.

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