New Product Announcement

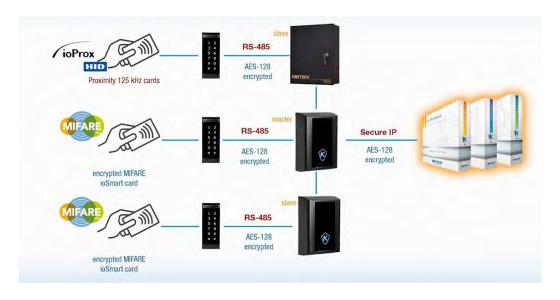## Flexible ioSmart Card Readers and Cards

Tyco Security Products is pleased to announce Kantech ioSmart Card Readers and Cards. Based on MIFARE Plus, Kantech's ioSmart Card Readers provide a high level of security by enabling end-to-end encryption between the credentials and the EntraPass access control software. The readers also give customers an easy and powerful way to move from proximity cards to advanced smart card technology, whether they are using the popular Kantech ioProx solution or another proximity system. Multi-technology readers provide the option to read both proximity and smart cards allowing the customers to migrate at their own pace.

Key Features at a Glance

End-to-end encryption for high level of security
ioSmart readers provide end-to-end AES 128-bit encryption between the ioSmart card and ioSmart reader, ioSmart reader and Kantech KT-1 and KT-400 controllers over RS-485 and the aforementioned controllers to EntraPass software over IP.
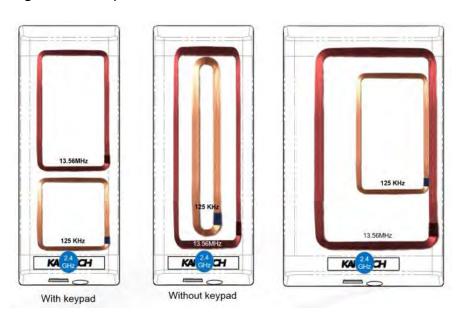

Benefit
The end-to-end encryption ensures the highest level of security from the credential all the way to the EntraPass Software system.

Cost-effective solution to transition from proximity to advanced smart card technology
Kantech's ioSmart Smart Card Readers give customers an easy, flexible and cost-effective way to move from proximity cards to advanced smart card technology, whether they are using the popular Kantech ioProx solution or another proximity system. Multi-technology models (13.56 MHz and 125 KHz) provide the option to read both proximity and smart cards allowing the customers to migrate at their pace.

Benefit
Many customers today are still using proximity technology over other technologies because of simplicity. However, they are starting to realize the benefits of smart card technology because of the high security, and flexibility. The ioSmart card readers and cards provide an ideal solution for companies wishing to transition to smart cards. The MIFARE Plus EV1 based ioSmart cards provide encrypted sectors for pre-programmed card credentials to simplify installation thus saving costs, and have sufficient sectors open for customers to use for other applications such as vending, cafeteria, bus/train, etc.). *

*Programming software not provided/supported by Kantech

Format	Multi-Technology Models	Smart Card Models
ioSmart MIFARE Plus EV1 (Kantech cards)	X	X
Kantech ioProx (Prox)	X	
HID Prox	X	
MIFARE Classic (UID)	X	X
MIFARE Plus (UID)	X	X
DESFire (UID)	X	X

14443B Standard (UID)	X	X

Capacitive touch keypad available

ioSmart Smart Card Readers include an intuitive LED status bar that clearly indicates various access conditions to the user. There are also models available with integrated backlit, capacitive keypad support for dual factor authentication, combining contactless card presentation with a PIN.

Benefit

Not only do the ioSmart Card Readers with capacitive keypad provide an aesthetically pleasing addition to any commercial environment, the keypad, which is backlit, provides ease of use when entering a PIN. Since the keypad relies on the electrical properties of a human body to detect when and where on the keypad a user touches, a capacitive touchscreen can be controlled with a simple touch with a human finger to move through the various number sequences for a PIN. It only requires a light touch to function properly making for a more streamlined and technology forward aethetic. The readers also include an intuitive LED status bar that gives a visual indication of access conditions to the user.

Bluetooth-ready for future proofing

ioSmart Smart Card Readers are Bluetooth-ready and field firmware upgradeable.

Benefit

With the ability to upgrade the reader firmware in the field, ioSmart Card Readers provide a solution that customers can rely on for long-term performance, and easier service and support well after the readers have been deployed. This offers customers an uncomplicated path to secure, feature-rich technology as it is released. The Bluetooth technology also gives customers the ability to use the reader for a variety of future applications.

Unique design allows time-saving wiring to standard door contacts and T.Rex devices

ioSmart Smart Card Readers can be wired directly to standard door contacts and T.Rex devices rather than running the wires all the way to a controller.

Benefit

Wiring and the costs associated with installation can be costly. Since ioSmart Card readers can be wired directly to standard door contacts and T.Rex devices, this saves on the the cost of the wire and the installation time necessary to run the wires from door contacts and T.Rex devices to the controller housed in a server room or utlity closet.

Available in mullion and single-gang models for indoor and outdoor installations

The attractive ioSmart Smart Card Readers are available in single-gang or mullion models and can be installed in indoor or outdoor applications.

ioSmart Smart Card Readers & Cards

Single-Gang

Mullion

Benefit

The flexibility of the ioSmart Readers does not stop at the ability to read various highliy secure card formats, they also come in single-gang and mullion models, with or without a backlit capacitive keypad, and a IP55 rated for outdoor use. The absence of moving parts and exposure to the environment ensures years of reliability.

Smart Card Options

MFP-2KDYE

MFP-2KSHL

MFP = MIFARE Plus Ev1
2K = 2k memory
DYE = Printable cards
SHL = Clamshell Cards

ioSmart Smart Card Readers & Cards

Ordering Information

ioSmart Smart Card and Multi-Technology Readers

Model Number	Description
KT-MUL-MT	ioSmart Smart Card Reader, multi-technology, mullion
KT-MUL-MT-KP	ioSmart Smart Card Reader, multi-technology, mullion with keypad
KT-MUL-SC	ioSmart Smart Card Reader, smart card only, mullion
KT-SG-MT	ioSmart Smart Card Reader, multi-technology, single gang
KT-SG-MT-KP	ioSmart Smart Card Reader, multi-technology, single gang with keypad
KT-SG-SC	ioSmart Smart Card Reader, smart card only, single gang

ioSmart Smart Cards

Model Number	Description
MFP-2KDYE	MIFARE Plus EV1 2K Printable Smart Card
MFP-2KSHL	MIFARE Plus EV1 2K Shell Smart Card

ioSmart Smart Card Starter Kits

Model Number	Security Software	Controller(s)	Reader(s)	Other Items
SK-CE-400-SCM	EntraPass Corporate Edition	KT-400	KT-MUL-SC (3) KT-MUL-MT-KP (1)	USB-485 converter (1), TR1675 transformer (1), KT-BATT-12 battery (1), MFP-2KSHL smart cards (5) (US and Canada)
SK-CE-400-SCSG	EntraPass Corporate Edition	KT-400	KT-SG-SC (3) KT-SG-MT-KP (1)	USB-485 converter (1), TR1675 transformer (1), KT-BATT-12 battery (1), MFP-2KSHL smart cards (5) (US and Canada)
SK-SE-400-SCM	EntraPass Special Edition	KT-400	KT-MUL-SC (3) KT-MUL-MT-KP (1)	USB-485 converter (1), TR1675 transformer (1), KT-BATT-12 battery (1), MFP-2KSHL smart cards (5) (US and Canada)
SK-SE-400-SCSG	EntraPass Special Edition	KT-400	KT-SG-SC (3) KT-SG-MT-KP (1)	USB-485 converter (1), TR1675 transformer (1), KT-BATT-12 battery (1), MFP-2KSHL smart cards (5) (US and Canada)
SK-CE-1M-SCM	EntraPass Corporate Edition	KT-1-M	KT-MUL-SC (1)	MFP-2KSHL smart cards (5), KT-PTC164OUG 120V / 16 VAC 40 VA transformer, KT-PS4085 12 VDC power supply, KT-BATT-12 battery
SK-CE-1M-SCM-LA	EntraPass Corporate Edition	KT-1-M	KT-MUL-SC (1)	MFP-2KSHL smart cards (5), KT-PTC164OUG 120V / 16 VAC 40 VA transformer, KT-PS4085 12 VDC power supply

ioSmart Smart Card Readers & Cards

				MFP-2KSHL smart cards (5), KT-PTC1640CG 120V / 16 VAC 40 VA transformer (Canada only), KTPS4085 12 VDC Power supply, KT-BATT-12 battery
SK-SE-1M-SCM-C	EntraPass Special Edition	KT-1-M	KT-MUL-SC (1)	MFP-2KSHL smart cards (5), KT-PTC1640CG 120V / 16 VAC 40 VA transformer (Canada only), KTPS4085 12 VDC Power supply, KT-BATT-12 battery
SK-SE-1M-SCM	EntraPass Special Edition	KT-1-M	KT-MUL-SC (1)	MFP-2KSHL smart cards (5), JT-PTC1640UG) 120V / 16 VAC 40 VA transformer, KT-PS4085 12 VDC Power supply, KT-BATT-12 battery
SK-CE-1M-SCM-C	EntraPass Corporate Edition	KT-1-M	KT-MUL-SC (1)	MFP-2KSHL smart cards (5), KT-PTC1640CG 120V / 16 VAC 40 VA transformer (Canada only), KTPS4085 12 VDC Power supply, KT-BATT-12 battery

ioSmart Smart Card Expansion Kits

Model Number	Controller	Reader	Other Items
EK-400-MTM	KT-400	KT-MUL-MT (4)	TR1675 transformer (1), KT-BATT-12 battery (1) (US and Canada)
EK-400-MTSG	KT-400	KT-SG-MT (4)	TR1675 transformer (1), KT-BATT-12 battery (1) (US and Canada)
EK-1M-MTM	KT-1-M	KT-MUL-MT (1)	KT-PTC1640UG 120V / 16 VAC 40 VA transformer, KT-PS4085 12 VDC Power supply, KT-BATT-12 battery
EK-1M-MTM-LA	KT-1-M	KT-MUL-MT (1)	KT-PTC1640UG 120V / 16 VAC 40 VA transformer, KT-PS4085 12 VDC Power supply
EK-1M-MTM-C	KT-1-M	KT-MUL-MT (1)	KT-PTC1640CG 120V / 16 VAC 40 VA transformer (Canada only), KT-PS485 12 VDC Power supply, KT-BATT-12 battery
EK-1-MTM	KT-1	KT-MUL-MT (1)	n/a
EK-1-MTM-C	KT-1	KT-MUL-MT (1)	n/a
EK-400-SCM	KT-400	KT-MUL-SC (4)	TR1675 transformer (1), KT-BATT-12 battery (1). (US and Canada)
EK-400-SCSG	KT-400	KT-SG-SC (4)	TR1675 transformer (1), KT-BATT-12 battery (1). (US and Canada)
EK-1M-SCM	KT-1-M	KT-MUL-SC (1)	KT-PTC1640UG Transformer 120V / 16 VAC 40 VA, KT-PS4085 12 VDC Power supply, KT-BATT-12 battery
EK-1M-SCM-C	KT-1-M	KT-MUL-SC (1)	KT-PTC1640CG transformer 120V / 16 VAC 40 VA (Canada only), KT-PS485 12 VDC Power supply, KT-BATT-12 battery

For more information on EntraPass 7.10, please email kantechsales@tycoint.com or contact your Kantech account representative.

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