KT-4

KT-4 Controller

Optional Wi-Fi or POE++
Wi-Fi or POE++ connection for convenient connectivity

Offline Mode
100,000 cards and 60,000 stored events in Offline Mode

End-to-end encryption
Using Kantech's ioSmart reader and smart card

Double and triple swipe
Activate relay, arm alarm system, lock/ unlock doors

Configurable in different modes
Provides advanced access control when used with EntraPass Security Management Software or basic door security in Standalone Mode

Data integration
Integrates with multiple intrusion alarm panels

KT-4 Encrypted 4-Door Controller using EntraPASS

KT-4 Encrypted 4-Door Controller using **EntraPASS** can be configured in two user-friendly operational modes. KT-4's Standalone Mode offers basic door security using a simple web browser without the need to connect to a host system. Alternatively, KT-4 can be used with the powerful EntraPass Security Management Software to provide more advanced and fully integrated access control.

The KT-4 four-door controller is a cyber-resilient and easy-to-use networked access control solution with support for up to eight ioProx XSF and ioSmart readers/cards (4 doors IN/OUT control) combining with EntraPass security management to create a highly scalable solution deployable over multiple locations. The KT-4 has an on-board ethernet port that connects to existing network infrastructure and leverages the benefits of IP-based systems with a 128-AES encryption with EntraPass. Once connected the controller only communicates with that instance of EntraPass. Optionally add WI-FI to the KT-4 to be able to secure doors further where Ethernet is not available. Furthermore, the optional PoE module provides PoE / PoE+ /PoE++ power for the KT-4 powering the readers and locks.

Built-In Expansion

The KT-4 allows expansion modules to add up to 256 inputs or to add up to 256 outputs such as relays and drain outputs. The KT-4 has an onboard capability of monitoring 16 input zones. Inputs can be configured from no End-of-line resistors to using single or double EOL resistors which allows to monitor more states associated with a customer's installation, significantly increasing the level of security. The KT-4 Ethernet four-door controller supports elevator interfacing with the addition of expansion modules such as the KT-MOD-REL8, KT-MOD-INP16, KT-MOD-OUT16 and KT-MOD-IO16.

Removable Terminal Blocks

To expedite installation and facilitate serviceability, KT-4 features removable terminal blocks that are simple to connect and are color-coded for quick identification.

Built-in Web Configuration

The web configuration page is accessible through any browser. It can be used to verify and configure the IP settings of the KT-4. For enhanced security, once the KT-4 is configured, the web configuration page can no longer be accessed; changes can be made to its associated EntraPass software.

Low Bandwidth Consumption

The EntraPass software monitors events occurring at the doors by polling the KT-4 door controllers. EntraPass only communicates with the KT-4 if an event has occurred. Communication integrity is ensured through a heartbeat signal which is sent at regular intervals to the EntraPass system. This asynchronous communication significantly reduces the amount of bandwidth required to manage the access control system over the network. If there is a communication failure between EntraPass and the KT-4, an alarm will be triggered in the EntraPass system.

Supervised Lock Power

There are four supervised door lock outputs with an internal power supply (12 VDC). In addition, an external power supply (12 VDC – 24 VDC) may also be used to provide power to the lock outputs. This eliminates the need for additional relays. The lock outputs will still be supervised by the KT-4.

Alarm Panel Integration

DSC MAXSYS, PowerSeries, PowerSeries Neo and PowerSeries Pro intrusion alarm panel data integration can be accomplished by connecting it to the KT-4 controller. Using the KT-4; EntraPass can receive intrusion events, view the status of zones and partitions with the use of the virtual keypad perform programming changes like users' codes. In addition, the system can be armed/disarmed (single or multiple partitions) via the reader or manual operation from the workstation.

KT-4 Standalone - One Combined Hardware and Web-based Software Solution

Ideal for sites that only need basic door security, the KT-4 four door/reader controller features an embedded web server which enables it to operate in a Standalone Mode – meaning no EntraPass software is required. With no extra security software to purchase and install, the KT-4 Standalone provides a cost-effective, yet feature-rich alternative for four-door security. Manage and configure your four-door security from anywhere, using a desktop or mobile device. KT-4 Standalone offers the ultimate simplicity in access control installation by using the quick set-up configuration wizard.

KT-4 is optimized for communication with EntraPass v8.71 and higher. KT-4 is compatible with previous EntraPass versions supporting the KT-400 rev1. Controller features vary based on the specific EntraPass versions. KT-4 firmware update requires EntraPass v8.71. Integrations such as DSC and Aperio are not compatible with EntraPass v8.6x and lower. Contact your sales rep for integration availability.

Specifications

Type	Description
AC Power Input Transformer class 2	16 or 24 VAC 74VA
DC Power Input	24 VDC +/- 20% at 3.5 A
PoE/PoE+/ PoE++	12.5 W/22.5 W/52 W
Operating temperatures	For UL listed installations: 0°C to 49°C (32°F to 120°F) indoor use only
Humidity level	85% relative humidity non-condensing
Cabinet dimensions, Height x Width x Depth	37.59 cm x 30.48 cm x 12.57 cm (14.8 in. x 12 in. x 4.95 in.)
Weight	KT-4: 4.0 kg (8.82 lb)
Reader types	OSDP, Kantech RS-45, Wiegand, proximity, ABA Clock and Data, bar code, magnetic, integrated keypad, and smartcard
Reader power output	12 VDC at 500 mA maximum each, protected and supervised
Monitored points (zone inputs)	16 monitored points (Z1 to Z16), NO/NC without EOL (DRY), single EOL, double EOL and 1 fixed-function tamper input
Points maximum wiring	AWG #22-600 m (2000 ft) For the relevant reader's maximum wiring specifications, refer to the reader's installation manual
Door strike power supervised	• 500 mA each or 2 A total for the KT-4 using AC power 75 VA or PoE++ 60 W • 1 A each or 4 A total for the KT-4 (JP4 on EXT)
Auxiliary reader outputs	Four LEDs and four buzzers (BUZ) for each individual door, 25 mA maximum each, open collector outputs
Relay controlled outputs	4 onboard Form C relays, 30 VDC, 3 Amps each, 0.6 power factor
Communication ports	1 x RS-232 with RJ-12, 2 x RS-485, 1 x Ethernet 10/100/1000 Base-T with RJ-45, Wi-Fi Note: Use the RS-232 for integrations, with a maximum cable length of 3 m (10 ft)
Wi-Fi specifications with optional module	Station mode wireless 802.11 b/g/n (2.4/5 GHz) Access point wireless 802.11 n (2.4/5 GHz)
Network type	IEEE 802.00 b/g/n (Wireless LAN)
Frequency/ Max. E.I.R.P.	2.412-2.472 MHz / ETSI 100 mW, FCC 1 W 5.180-5.825 MHz
Expansion port	1 x SPI 6-pin connector, bidirectional data exchange supported. Supplies 12 VDC, shared with 12 VDC auxiliary port
Auxiliary power	1 x auxiliary 12 VDC, 500 mA maximum shared with SPI expansion port
Communication speed	1200 to 115200 Bauds (automatic detection) over RS-485 10/100/1000 Mb/s BaseT over Ethernet 33 Mb/s over Wi-Fi
Flash memory	Pseudo single cell 5G eMMC NAND flash for application, storage and standalone event buffer holding 60,000 events
RAM memory	512 MB DDR3 for application loading and running
Network autonomy	Distributed data and processing
Certifications/ listing	FCC Part 15.247, SQG-60SIPT FCC compliant to CFR 47, Part 15, Subpart B, Class B Class A UL 294, UL 2610, and ULC/ORD-C1076 IC: 3147A-60SIPT. ICES-003 (A)/NMB-003 (A) CE RCM UKCA EN61000-6-1, EN61000-6-2, EN55032, EN62368-1, EN50130-4 RohS, WEEE
AES Encryption	NIST compliant

Standalone Mode Parameters

Function	Limit
Cardholders	2,000 (1,000 with image/ 1,000 without image)
Door Access	Per door, per user
Card Families or Site Codes	Unlimited
Events	60,000 (Offline Mode)
Operators	2 (Installer, Operator)
Schedules	20 (5 intervals)
Holidays	25
Action Scheduler	100
Monitored Points (Inputs)	16
Auxiliary Outputs	12
Browsers	Safari, Google Chrome, Mozilla Firefox, Internet Explorer, Microsoft Edge
Mobile Operating Software	iOS, Android (No native app)

Integrations	Basic intrusion via relays
Upgrade Path	EntraPass/hattrix
Languages	English, French, Spanish, Italian
Firmware version	KT-4 Standalone v3.03 and higher on KT-4 (Subject to firmware upgrade fees)

Ordering Information

Model Number	Description
KT-4	KT-4 PCB, accessory kit and metal cabinet with lock and keys
KT-4-PCB	KT-4 PCB and accessory kit
KT-4-WIFI	KT-4 PCB with WiFi, accessory kit and metal cabinet with lock and key
KT-4-PoE	KT-4 PCB with PoE, accessory kit and metal cabinet with lock and key
Expansion Modules	
KT-MOD-INP16	16-zone input module with 41 cm (16 in) SPI cable
KT-MOD-REL8	8-relay outputs module with 41 cm (16 in) SPI cable
KT-MOD-OUT16	16-zone output module with 41 cm (16 in) SPI cable
KT-MOD-IO16	RS-485 Input/Output Module; compatible with KT-4 and KT-1 controllers
KT-MOD-PoE	PoE, PoE+ and PoE++ module add-on for KT-4-PCB
KT-MOD-WiFi	WiFi module and antenna add-on for KT-4-PCB
Accessories	
KT-MOD-SPI-16	SPI cable 41 cm (16 in)
KT-MOD-SPI-36	SPI cable 92 cm (36 in)
KT-ACC	Accessory Kit: resistors (4x 1K Ω, 32x 5.6K Ω), ground wire, battery connector and screwdriver
KT-4-CAB	Black metal cabinet with lock and keys
KT-MOD-CAB	Cabinet for up to 6 expansion modules, including lock, keys, and 92 cm (36 in) SPI cable
KT-TAMPER	Tamper switch
KT-LOCK	Cabinet lock and 2 keys
KT-CON	Removable terminal block
Power Supplies	
TR1675	Wire-in transformer, 110 VAC/ 16.5 VAC (7 VA), UL approved
KT-BATT-12	Gel cell battery, 12 V, 7 Ah
KT-BATT-1212	Gel cell battery, 12 V, 12 Ah

KT-4 Starter Kits

Model Number	Security Software	Controller(s)	Reader(s)	Other Items
SK-CE-4-SCM	EntraPass Corporate Edition	KT-4	KT-MUL-SC (4)	TR1675 transformer (1), KT-BATT-12 battery (US and Canada)
SK-CE-4-SCSG	EntraPass Corporate Edition	KT-4	KT-SG-SC (4)	USB-485 converter (1), TR1675 transformer (1), KT-BATT-12 battery (1) (US and Canada)
SK-SE-4-SCM	EntraPass Special Edition	KT-4	KT-MUL-SC (4)	USB-485 converter (1), TR1675 transformer (1), KT-BATT-12 battery (1), MFP-2KSHL smart cards (5) (US and Canada)

KT-4 Expansion Kits

Model Number	Controller	Reader	Other Items
EK-4-MTM	KT-4	KT-MUL-MT (4)	TR1675 transformer (1), KT-BATT-12 battery (1) (US and Canada)
EK-4-MTSG	KT-4	KT-SG-MT (4)	TR1675 transformer (1), KT-BATT-12 battery (1) (US and Canada)
EK-4-SCM	KT-4	KT-MUL-SC (4)	TR1675 transformer (1), KT-BATT-12 battery (1) (US and Canada)
EK-4-SCSG	KT-4	KT-SG-SC (4)	TR1675 transformer (1), KT-BATT-12 battery (1) (US and Canada)
EK-4	KT-4		TR1675 transformer (1), KT-BATT-12 battery (1) (US and Canada)

Product offerings and specifications are subject to change without notice.

Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative.

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