

KT-1 – Ethernet-Ready One-Door Controller



Key Features

- Configurable in two different modes: Provides advanced access control features when used with EntraPass Security Management Software or basic door security in Standalone Mode
- Single capacitive touch button for fast controller enrollment (EntraPass Security Management Software)
- Flexible power input – Power over Ethernet (PoE), PoE+ or 12 VDC
- Choose from single gang mount (KT-1) or cabinet mount (KT-1-PCB)* installation options
- End-to-end encryption using Kantech's ioSmart reader & smart card
- Compatible with EntraPass Security Management Software v6.02 or higher

KT-1 Ethernet-ready one door controller supports two readers (entry and exit) and can be configured in two user friendly operational modes. KT-1's Standalone Mode offers basic one door security using a simple web browser and without the need to connect to a host system. Alternatively KT-1 can be used with the powerful EntraPass Security Management Software to provide more advanced and fully integrated access control features.



KT-1 Standalone Mode

Ideal for sites that only need basic door security, the KT-1 single door controller features an embedded web server which enables it to operate in a Standalone Mode – meaning no EntraPass software is required.

*KT-1-PCB is available in Standalone Mode, need EntraPass Security Management Software for serial interface and DSC integration

One Combined Hardware and Web-based Software Solution

With no extra security software to purchase and install, and using an intuitive web browser for quick set up, KT-1 Standalone provides a cost-effective, yet feature rich alternative for one-door security.

Responsive Web-based Software

Intuitive and responsive web-based software enables you to simply manage and configure your one-door security from anywhere, using a desktop or mobile device.

Standalone Set-Up Wizard

KT-1 Standalone offers the ultimate simplicity in access control installation. Simply power up KT-1; connect to a web browser; follow the quick set-up configuration wizard and your one-door security is up and running in minutes.

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)	4
Auxiliary Outputs	4
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/ hatrix
Languages	English, French, Spanish, Italian
Firmware version	KT-1 Standalone version 2.04 & higher. (Subject to firmware upgrade fees)

KT-1 using EntraPass

Advanced and fully integrated access control

Using EntraPass software a single KT-1 Controller can control one door or can act as a 'head IP controller', linking together 31 additional controllers under one IP connection in EntraPass. This significantly reduces the amount of IP connections required to EntraPass and reduces programming time on the software, thus creating installation cost benefits and a highly scalable solution.

One Touch for Quick Connection to EntraPass

The KT-1 controller features a capacitive touch-sensitive button for plug and play installation. Simply provide an IP connection, push a single button and you're done. There is no need to manually enter MAC/Serial numbers. With its innovative single button programming, the KT-1 is automatically detected and enrolled onto the EntraPass security management software (v6.02 and higher). Quickly connect using Universal Plug and Play (UPnP) protocol allowing the controller to be network discoverable without requiring the IP address*.

With its Ethernet port for direct network connection, its Power over Ethernet capabilities and its unique single button programming, the KT-1 controller is up and running in just a few simple steps.



EntraPass web & go

Combine the KT-1 controller with EntraPass security management software and the EntraPass web and go mobile applications to create an innovative solution that installs quickly, can be managed remotely and provides a superior user experience. Admin users can connect via a web browser or a dedicated app on their smart phone/tablet and manage common security tasks wherever they are.

Alarm Panel Integration

DSC MAXSYS, PowerSeries, PowerSeries Neo and PowerSeries Pro alarm panel data integration can be accomplished by connecting it to the KT-1 controller (KT-1-PCB model only). Using this controller; EntraPass Special, Corporate or Global Editions are able to receive intrusion events, view the status of zones and partitions, and program users' code. In addition the system can be armed/disarmed (single or multiple partitions) via the reader or manual operation from the workstation.

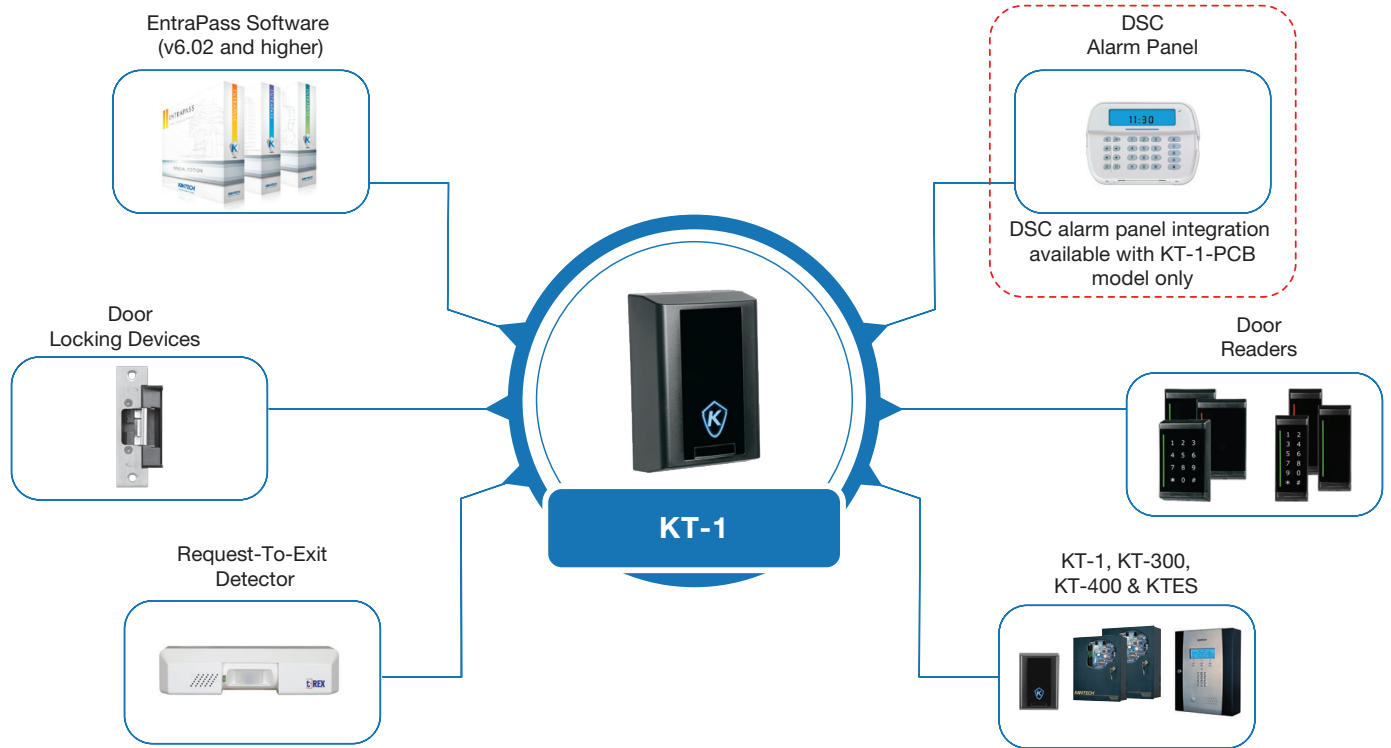
Encrypted and Efficient Network Communication

The KT-1 controller uses 128-bit AES encryption protect communication. It also acts as a polling device to ensure the controllers communicate with EntraPass only as required, thus reducing network traffic. Flexible options allow KT-1 to connect to EntraPass via:

- On-board IP (Ethernet) port
- RS-485 (COM1) port for communication between the EntraPass Gateway/ Kantech Network Communication Controller (KTNCC) and KT-300/KT-400 door controllers.

*Universal Plug and Play (UPnP) feature available when KT-1 configured in either EntraPass Security Management Software or Standalone Mode

Basic System Diagram



Specifications

Physical	
Plastic Housing Dimensions (H x W x D)	12.9 x 8.6 x 4.6 cm (5.1 x 3.4 x 1.8 in)
Weight	305 g (10.8 oz)
KT-1-PCB	
Dimensions (H x W x D)	13.8 x 12.1 x 4.8 cm (5.4 x 4.8 x 1.9 in)
Weight	395 g (13.9 oz)
Environmental	
Operating Temperature	2° to 40°C (35° to 104°F)
Operating Humidity	0% to 95% non-condensing
Electrical	
KT-1/KT-1-PCB Power Input	12 VDC / PoE / PoE+, 2.2 A
Reader Power Output	Maximum 0.5 A @ 12 VDC, typical 250mA per reader, protected and supervised
Lock Device Power	12 VDC, typical 750mA supervised (PoE+ & 12vdc power input) & 12 VDC, typical 250mA supervised (PoE)

Operational	
One Button Enrollment	Capacitive touch-sensitive button (EntraPass Security Management Software)
Reader Types	Wiegand, proximity, ABA clock and data, bar code, magnetic, integrated keypad, smart card, RS-485 (Kantech Protocol)
# of Cards when disconnected from EntraPass (Offline Mode)	100,000 (KT-1 and KT-1- PCB)
Monitored Points (Inputs)	4 monitored points, single EOL, double EOL (Independently programmable)
Reader Outputs	LED and buzzer (25 mA maximum each, open collector outputs)
Auxiliary Outputs	OUT3 and OUT4 (25 mA each, open collector outputs)
KT-1 Controlled Output Relay	2 controlled output relays, 12 VDC, 25 mA each, open collector (optional relay KT-RM1 available)
KT-1-PCB Controlled Output Relay (R1, R2)	2 onboard form C controlled outputs relays, 30 VDC, 3 A max each
Communication Ports	RS-485, Ethernet 10/100Base-T with RJ-45
Expansion Port	RS-485
Auxiliary Port	Auxiliary 12 VDC, 500 mA maximum
Communication Speed	Up to 115,200 baud (automatic detection over RS-485); 10/100Base-T over Ethernet
Flash Memory	256 MB for application and data storage (configuration and events can reside for a minimum of 10 years without power)
RAM	128 MB for application loading and running
Network Autonomy	Distributed data and processing
Regulatory	
EN60839-11-1 Grade 1, EN50130-4:2011, AS-NZS, EN55032, EN60950, FCC, UL, UL-294, UL-1076, IC, NMB-003, RCM, CE	
Warranty	
KT-1 hardware	5 years

Ordering Information

KT-1 Order Information

Model Number	Description
KT-1	Ethernet-ready, one door controller, single gang mount
KT-1-M	Ethernet-ready, one door controller (KT-1-PCB) and metal cabinet (KT-1-CAB-M)
KT-1-PCB	Ethernet-ready, one door controller for metal cabinet mount (Compatible with KT-1-CAB-M, not included)
KT-1-CVR	Black plastic replacement cover, fits KT-1 and KT-1-PCB
KT-1-CAB-M	Black metal cabinet, fits KT-1-PCB (H x W x D) 29.9 x 28.8 x 7.7 cm (11 3/4 x 11 3/8 x 3 in)

KT-1 Starter Kits

Model Number	Security Software	Controller(s)	Reader(s)	Other Items
SK-CE-1-RDR	EntraPass Corporate Edition	KT-1	P225XSF (1)	5 key fobs/credentials (P40KEY)
SK-CE-1M-RDR	EntraPass Corporate Edition	KT-1-M	P225XSF (1)	120V / 16 VAC 40 VA transformer (KT-PTC1640UG), 12 VDC power supply (KT-PS4085), 12V 7 AH battery (KT-BATT-12), 5 key fobs/credentials (P40KEY)
SK-SE-1-RDR	EntraPass Special Edition	KT-1	P225XSF (1)	5 Key fobs/credentials (P40KEY)
SK-SE-1M-RDR	EntraPass Special Edition	KT-1-M	P225XSF (1)	120V / 16 VAC 40 VA transformer (KT-PTC1640UG), 12 VDC power supply (KT-PS4085), 12V 7 AH battery (KT-BATT-12), 5 key fobs/credentials (P40KEY)
SK-CE-1M-SCM	EntraPass Corporate Edition	KT-1-M	KT-MUL-SC (1)	120V / 16 VAC 40 VA transformer (KT-PTC1640UG), 12 VDC power supply (KT-PS4085), 12V 7 AH battery (KT-BATT-12), 5 smart cards (MFP-2KSHL)
SK-SE-1M-SCM	EntraPass Special Edition	KT-1-M	KT-MUL-SC (1)	120V / 16 VAC 40 VA transformer (KT-PTC1640UG), 12 VDC power supply (KT-PS4085), 12V 7 AH battery (KT-BATT-12), 5 smart cards (MFP-2KSHL)

KT-1 Expansion Kits

Model Number	Controller(s)	Reader(s)	Other Items
EK-1-RDR	KT-1	P225XSF (1)	n/a
EK-1M-RDR	KT-1-M	P225XSF (1)	120V / 16 VAC 40 VA transformer (KT-PTC1640UG), 12 VDC power supply (KT-PS4085), 12V 7 AH battery (KT-BATT-12)
EK-1M	KT-1-M	n/a	120V / 16 VAC 40 VA transformer (KT-PTC1640UG), 12 VDC power supply (KT-PS4085), 12V 7 AH battery (KT-BATT-12)
EK-1M-MTM	KT-1-M	KT-MUL-MT (1)	120V / 16 VAC 40 VA transformer (KT-PTC1640UG), 12 VDC power supply (KT-PS4085), 12V 7 AH battery (KT-BATT-12)
EK-1-MTM	KT-1	KT-MUL-MT (1)	n/a
EK-1M-SCM	KT-1-M	KT-MUL-SC (1)	120V / 16 VAC 40 VA transformer (KT-PTC1640UG), 12 VDC power supply (KT-PS4085), 12V 7 AH battery (KT-BATT-12)

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

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