

New Product Announcement: KT-1 One Door Controller

Tyco Security Products is delighted to announce the release of the KT-1 one door PoE controller from Kantech. With its elegant design and innovative single button enrolment*, KT-1 offers users and integrators the ultimate experience in access control installation.

ONE DOOR. ONE TOUCH. SECURITY SIMPLIFIED

KT-1 one door controller is available for use on the newly released EntraPass software editions v6.02 and higher and is available in two configurations for various installation methods:

KT-1 - Single gang electrical back box mount for typical door installation.

KT-1-PCB - Cabinet mount for installation in traditional security cabinet with battery backed up power supply.



Innovative one door IP controller

KT-1 Features at a Glance



- **One Door IP Controller - cost effective, yet feature rich:** KT-1 is an innovative one door IP controller, supporting two readers – IN/OUT. Supports Ethernet or Serial connectivity.
- **Single touch-sensitive button for enrolment (Kantech Shield):** The entire configuration of the KT-1 controller, as well as the programming of the controller onto the EntraPass security management software is done via a single touch-sensitive button. Simply hold the button for 6 seconds and the controller automatically enrolls onto the EntraPass software through automatic device detection. This saves installation time as you do not need to enter manually MAC/Serial numbers. This unique one button is also used to enrol additional controllers, display controller Status LED's and can act as a request to exit function.



*Patent pending

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- **Power over Ethernet (PoE):** The KT-1 controller has flexible power input including PoE/PoE+ or 12 VDC. With the option to utilize Power over Ethernet technology, KT-1 connects directly from an Ethernet PoE-injector or PoE-Switch to the EntraPass system. Using just a single Ethernet cable, the KT-1 eliminates the need to home run all the cables or to provide a local power supply at the door. This offers a cost-effective solution for single cable installations.
- **Plug & Play / ease of installation:** The KT-1 controller is extremely easy to install with a removable terminal clip. Once the back plate with terminal clip with all connections has been fixed, just simply click the controller and cover and you are ready for configuration.

KT-1 configuration



Simply provide an IP connection, push the touch-sensitive button and you're done. With its single button programming, Ethernet port and flexible design, the KT-1 controller is up and running, with a working card in minutes.

- **LED status indicators:** The KT-1 controller has informative LED communications & relay status indicators, to enable users to view network activity, power status and outputs. This information is particular useful to users during installation or maintenance trouble shooting.
- **Compact & attractive design:** The new KT-1 Controller is an elegantly designed piece of hardware. The KT-1 is designed to fit over a single gang box for the most efficient space saving.
- **Flexible system design:** KT-1 adds flexibility to your system architecture. Not only can you connect hundreds of KT-1 controllers in one system, but a single KT-1 controller can also act as a 'Head IP Controller' for more than 31 additional controllers when communicating with EntraPass software. This reduces the amount of IP connections needed back to EntraPass and significantly reduces set up time.

- **Secure:** KT-1 utilizes highly secure 128-bit AES encryption to ensure security communication is not compromised. 128-bit AES encryption communicates directly to EntraPass, preventing the threat of internet hacking and compromised security.
- **Proven firmware:** KT-1 is based on the existing and highly proven KT-400 controller firmware. Features include multi-swipe functionality, extended door unlock times and support for 100,000 cardholders. KT-1 is fast and compatible for use alongside the entire Kantech KT controller range, including KT-300 controller.
- **Intrusion integration:** The KT-1-PCB controller version can be connected directly to DSC PowerSeries or MAXSYS alarm panels for intrusion integration. This allows users to arm and disarm alarm panels with the assigned access rights. Also remote access to the alarm panel can be achieved via the EntraPass virtual keypad - creating a powerful integrated platform for single door installations.

Single button Explained* Patent pending



Single button enrolment to EntraPass

Simply hold the 'K' shield touch-sensitive button for 6 seconds to auto enrol the KT-1 controller to the EntraPass software. KT-1 can be configured using either an EntraPass workstation or via the EntraPass web app for convenience. Then program the KT-1 controller in simple steps. Simply name the door, assign it to a site and you are done. From installation to system enrolment, the KT-1 controller can be up and running in minutes.





Single button enrolment for additional controllers

Not only can you connect hundreds of KT-1 controllers in one system, but a single KT-1 controller can also act as a 'Head IP Controller' to link 31 additional controllers under one IP connection in EntraPass. Using the 'K' button we simply link the controllers together and enrol them using the EntraPass Workstation or Web. EntraPass will only see one connection; but you will be able to link together 31 controllers over IP. This configuration will allow each KT-1 to have their own individual IP address but only communicate to EntraPass via the first IP controller. This significantly reduces the IP connections required to EntraPass and reduces programming time on the software.

Supports up to 31 KT range controllers**



Single button displays LED status indicators

To view controller LED status indicators you simply hold the 'k' touch screen button for 3 seconds.



** connect to Multi-site Gateway

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Frequently Asked Questions

What are the typical applications where KT-1 controllers can be installed?

KT-1 controller is perfect for small applications, but is equally suited to large applications such as IP centric buildings, large footprint buildings and large systems with remote sites.

What card technologies are supported by KT-1?

KT-1 supports multiple card technologies and readers that communicate over Wiegand protocol.

Will I have to upgrade my software to v6.02 to install KT-1 Controllers?

Yes. KT-1 is compatible with all EntraPass Editions v6.02 and higher: EntraPass Special Edition, EntraPass Corporate Edition & EntraPass Global Edition

What readers are compatible for use with the KT-1 controller?

KT-1 supports Kantech's ioProx readers, as well as third party multiple reader and Biometric reader technologies that communicate with industry standard Wiegand protocol.

For Kantech customers, can I use the new KT-1 controllers with existing KT controllers already installed?

Yes, KT-1 can be used with the existing KT-100, KT-300 and KT-400 controllers.

If I require PoE what KT-1 model do I order?

Any model, KT-1 or KT-1-PCB with or without housing will support PoE or PoE+.

What power do I have available using PoE and what power supply do I need if I don't use PoE? Power Input for the KT-1 can be delivered using an external power supply 12V - 14V, 1.5A or a power injector/switch that typically supply 13W, 1A. The PoE Plus injector/switch deliver typically 27W, 1.9A. 500 mA is available for readers, 250mA per reader. This provides a maximum lock power:

PoE+ or DC power input:	LK: 750 mA for one output or total 1 A
PoE 13W:	LK: 375 mA for one output or total 750 A
KT-1-PCB extern. DC Power:	Relay: 30Vdc, 3 A max each

What communication interfaces and Inputs/Outputs are available?

The unit communicates with EntraPass using 100BaseT Ethernet or RS-485, and supports RS485 for communication with other controllers. The KT-1-PCB version has an RS-232 connector for communication to third party systems like alarm panels. Two reader interfaces for Wiegand or ABA (clock and data) readers for one door. It has four on-board monitored inputs and two relay Outputs (Form C Relays when using KT-1-PCB).

If I have a secondary KT-1 controller linked to a primary KT-1 Controller, what happens if a controller goes temporarily offline?

The KT-1 Controller automatically goes into standalone mode. Cards, access levels, schedule, holidays and door programming are kept and the controller will continue to work.

Feature, Function & Benefits





KT-1 Feature	Function	Benefit
One Door IP Controller	KT-1 supports two readers – IN/OUT. Ethernet ready.	Cost-effective one door controller, yet feature rich solution for one door installations.
One touch button enrolment *Patent pending	The entire programming of the KT-1 controller(s) and its enrolment into the EntraPass security management software is done via a single touch-sensitive button. 'k shield'	Automatic device detection of KT-1 controller saves on installation time – no need to write down MAC/serial numbers. One button for all purposes = streamlined installation & ultimate experience in access control installation.
Plug & Play installation	Simply provide an IP connection, push the touch-sensitive button and you're done.	Designed with installers & integrators in mind. Easy, fast installation.
Power over Ethernet	KT-1 has the option to utilize Power over Ethernet technology.	Flexible power input & installation cost savings. Cabling kept to a minimum.
Highly Secure	KT-1 utilizes highly secure 128-bit AES encryption.	Prevents the threat of internet hacking and compromised security

“We understand the power of simplicity for a superior access control user experience. Over the years we have designed the EntraPass software to be extremely intuitive and user friendly. From a distribution point of view we have also streamlined the ordering process. Now with the launch of the KT-1 controller we have an innovative hardware platform that is truly simple to install – the circle of security simplification is complete.

Raf Schrijvers, Tyco Product Marketing Manager



KT-1 Models

Part Number	Description
KT-1-EU-PC	KT-1-PCB One door controller PoE, PoE+ or 12Vdc, including: Plastic Housing and 13,8Vdc 3A power Supply 
KT-1-EU-MET	KT-1-PCB One door controller PoE, PoE+ or 12Vdc, including: Metal Housing and 13,8Vdc 3A power Supply 
KT-1	One KT-1, IP Controller Single gang flush Mount, PoE, PoE+ or 12Vdc, (KT-1 only, no PSU). Dimensions 12.9 x 8.5 x 4.6 cm (5.1 x 3.4 x 1.8 in) 
KT-1-M	One KT-1-PCB, IP Controller PCB with metal cabinet PoE, PoE+ or 12Vdc, including KT-1-PCB and Metal housing, No PSU) 

Accessories, Spare parts

Part Number	Description
KT-1-PCB	One Door IP Controller PCB incl. connector board (for mount in KT-1-CAB-M or P)
KT-1-CAB-P	Plastic enclosure ONLY for KT-1-PCB
KT-1-CAB-M	Metal enclosure ONLY for KT-1-PCB
TSP-POE-INJ	PoE Injector Single port without power cord
BAQ35T12	Switching power supply for Controllers - Max Current 3A @ 13,8V.
KT-1-CVR	Black Replacement cover for KT-1/ Including back box

For more information contact your Kantech account representative.