



Kantech Access Control Solutions



EMEA Product Guide 2021

The power behind **your mission**





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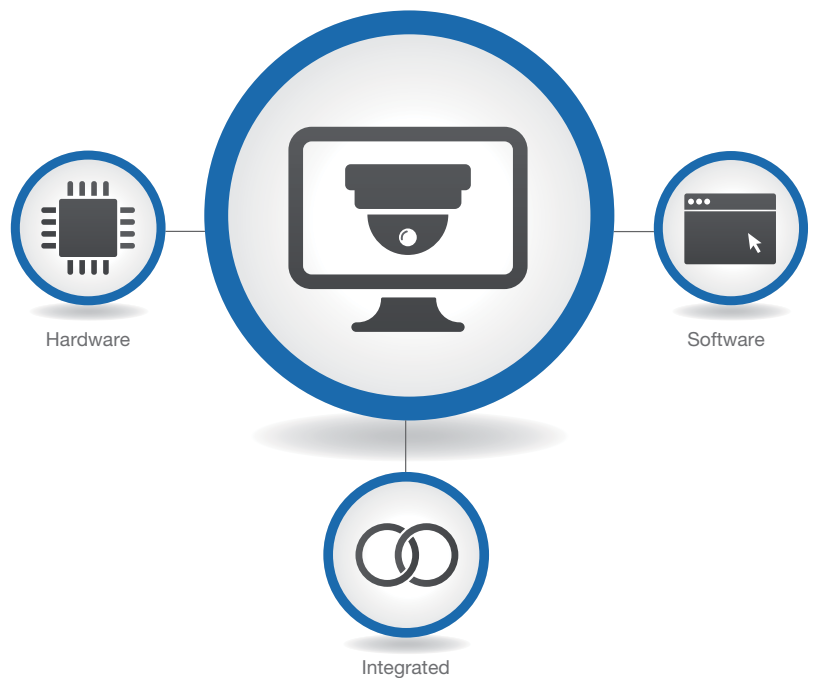
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Introduction

Founded in 1986, serving small to medium-sized businesses, Tyco Kantech, part of Johnson Controls, provides integrated access control technologies that are easy to install right out of the box, scalable, and reliable. Our flagship solution, EntraPass security management software and KT door controllers, allow for simpler configurations and provide robust reporting to enhance the user experience for both the installer setting up the system and the operator using the system.

Available as a traditional or hosted/managed access control solution, Kantech Managed Service Dealers (MSD) and Managed Service Providers (MSP) are able to offer customers an highly tailored and intuitive user experience.

At Johnson Controls, we understand the importance of quality products and customer service, and we are dedicated to providing both to ensure long-term satisfaction.



EntraPass Security Management

EntraPass is a robust suite of high-performance software that allows customers to design and operate any number of doors where card access is required – securely, quickly, and efficiently. EntraPass is compatible with Kantech's entire line of door controllers.

Kantech offers three different editions, which are suitable for everything from single sites to large multi-location businesses.



| | Special Edition | Corporate Edition | Global Edition |
|-----------------------|-----------------|-------------------|----------------|
| Video Integration | ✓ | ✓ | ✓ |
| Intrusion Integration | ✓ | ✓ | ✓ |
| Smart Cards | ✓ | ✓ | ✓ |
| Wireless Locks | ✓ | ✓ | ✓ |
| Multi-Site | ✗ | ✓ | ✓ |
| Mobile Apps | ✗ | ✓ | ✓ |
| Web Client | ✗ | ✓ | ✓ |
| Active Directory | ✗ | ✓ | ✓ |
| Global Anti-Passback | ✗ | ✗ | ✓ |
| Muster Reports | ✗ | ✗ | ✓ |

Detailed EntraPass product line positioning matrix available on www.kantech.com

EntraPass Special Edition

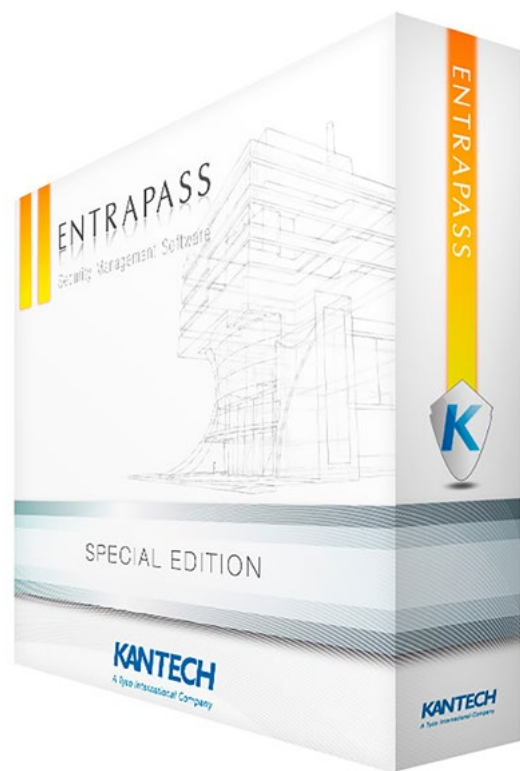
Single-Workstation Security Management Software

EntraPass Special Edition is a comprehensive, menu-driven, single-workstation security software. It controls 64 doors with KT-1, up to 128 doors with KT-300, and up to 256 doors with KT-400 door controllers. Administrators can define or modify parameters such as schedules or access levels, generate reports and activate controlled devices – that is, locking and unlocking doors, or activating replays for lighting or air conditioning.

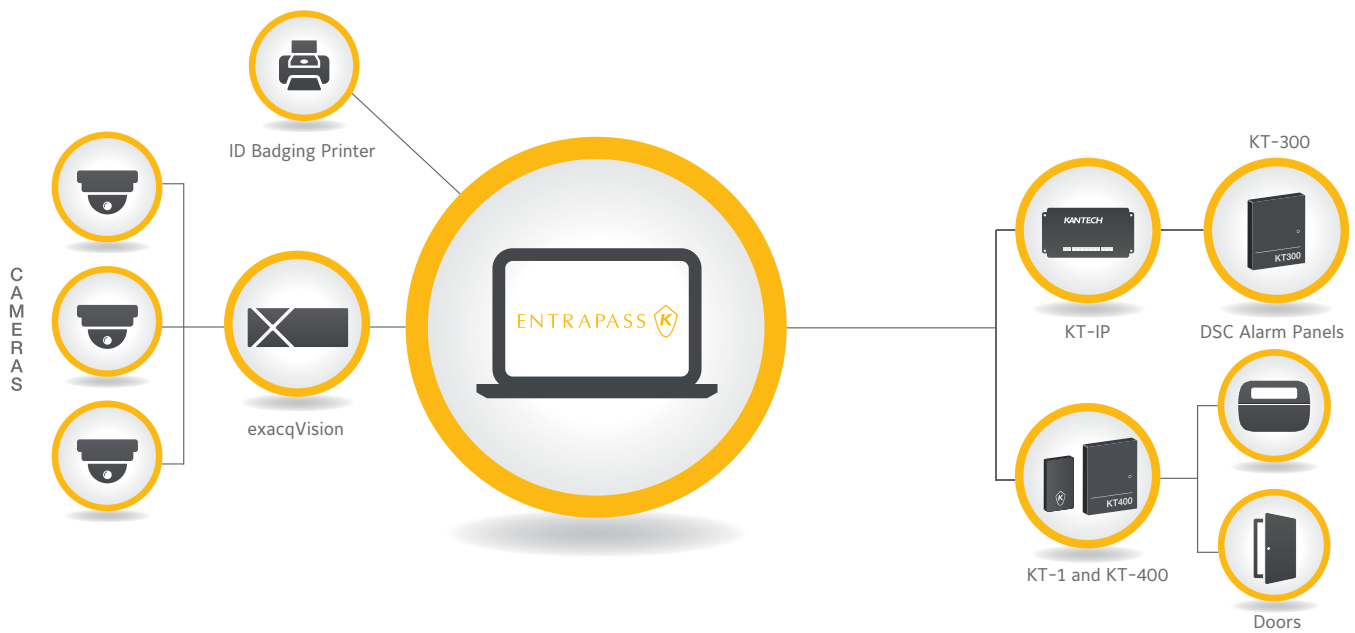
EntraPass offers full integration with exacqVision Network Video Recorders (NVRs), American Dynamics VideoEdge NVRs, and DSC PowerSeries Neo intrusion alarm panels.

Features

- Fast, user-friendly installation and operation
- Badge layout creation
- Programming holidays, card access groups, and elevator control
- Built-in reporting emailing, export, and printing
- Monitoring real-time events
- Embedded Sybase SQL database engine
- Double and triple-swipe card at reader (with KT-1 and KT-400 controller) to activate features, such as activate relay, arm alarm system, and lock/unlock doors
- Integrates with ASSA ABLOY™ Aperio wireless locks for an integrated lock management solution



EntraPass Special Edition Software



| EntraPass Special Edition | |
|---------------------------------------|---|
| Model | Description |
| E-SPE-V8 | EntraPass Special Edition software |
| E-SPE-LIC | EntraPass Special Edition software license |
| Kantech Advantage Program (KAP) Token | |
| Model | Description |
| E-SPE-KTK-1 | 1 Kantech Token |
| Wireless Lock Integration Licenses | |
| Model | Description |
| E-SPE-DOOR-X | Special Edition Wireless lock integration Licenses (X = 1, 4, 8, 24, 48, 96) |
| EntraPass Special Edition Options | |
| Model | Description |
| E-SPE-GLY | EntraPass Special Edition v5 Licence enabling integration with the Honeywell Intruder Alarm Panel. (EntraPass Special Edition can manage up to 5 integrated Honeywell intrusion panels) |

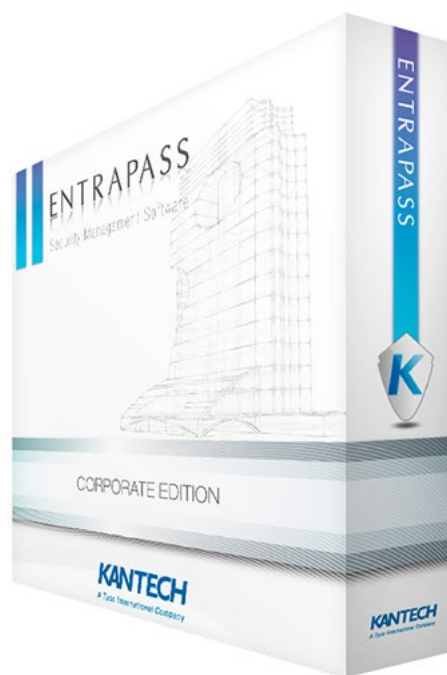
EntraPass Corporate Edition

Multiple-Workstation Security Management Software

EntraPass Corporate Edition is a multiple-workstation software platform that offers the ultimate balance between power and affordability in a network environment.

It offers the flexibility to securely connect controllers directly to the network, as well as over RS-485. EntraPass software is compatible with Kantech IP devices such as KT-1 and KT-400 door controllers, and Kantech IP Link, each of which utilise 128-bit AES encryption to protect communications against compromise.

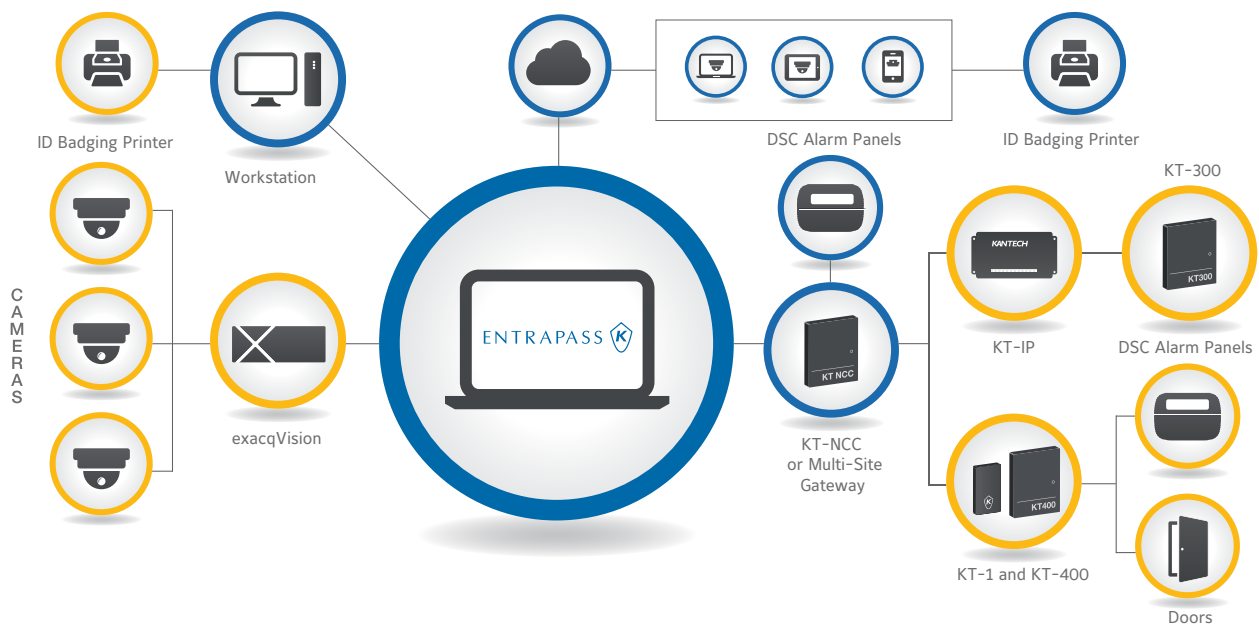
The software integrates advanced security features, such as the EntraPass go mobile app and the EntraPass web platform. These enable remote and convenient access to common access control, video and intrusion tasks, and reporting. The enhanced user experience makes navigation and operation easy and intuitive.



Features

- Supports up to 20 workstations and controls hundreds of thousands of doors
- Import/synchronise EntraPass operators and users (cardholders) with Microsoft™ Active Directory for centralised management
- Gain access to doors with a one-time unlock command using the EntraPass go mobile app
- Supports up to 50 concurrent logins with EntraPass web and/or EntraPass go
- Full integration with exacqVision NVRs, American Dynamics VideoEdge NVRs, and DSC PowerSeries Neo intrusion alarm panels
- Integrates with ASSA ABLOY™ Aperio wireless locks for an integrated lock management solution

EntraPass Corporate Edition Software



EntraPass Corporate Edition

| Model | Description |
|-----------|--|
| E-COR-V8 | EntraPass Corporate Edition software |
| E-COR-LIC | EntraPass Corporate Edition software license |

Additional Workstation and Gateway Licenses

| Model | Description |
|-----------|---|
| E-COR-WS1 | License for 1 Workstation (v3.xx and higher) |
| E-COR-WS6 | License for 6 Workstations (v3.xx and higher) |
| E-COR-COM | License for 40 Multi-Site Gateways (v3.xx and higher) |

EntraPass Corporate Edition Options

| Model | Description |
|---------------|---|
| E-COR-LDAP | License for Active Directory Lightweight Directory Access Protocol (LDAP) integration |
| E-COR-RDN | License for 1 Redundancy Server (v3.xx and higher) |
| E-COR-SQL | License for 1 Card Gateway - MS SQL Database Interface (v3.xx and higher) |
| E-COR-VVM | License for 1 EntraPass VideoVault (v3.xx and higher) |
| E-COR-WEB-X | License for concurrent web login (v4.xx and higher) (X = 1, 3, 10, 25 or 50) |
| E-COR-DVR-1 | License for single third-party DVR (v5.02 and higher) |
| E-COR-PASS-X | EntraPass go Pass (X=50, 100, 500) |
| E-COR-CONNECT | License for 1 concurrent integration (v7.0 and higher) |
| E-COR-GLY | EntraPass Corporate Edition v5 Licence enabling integration with the Honeywell Intruder Alarm Panel |

Kantech Advantage Program (KAP) Token

| Model | Description |
|-------------|--|
| E-COR-KTK-X | Kantech Tokens (X = 1, 2, 3, 5, 10, or 20) |

Wireless Lock Integration Licenses

| Model | Description |
|--------------|--|
| E-COR-DOOR-X | Corporate Edition Wireless lock integration Licenses (X = 1, 4, 8, 24, 48, 96) |

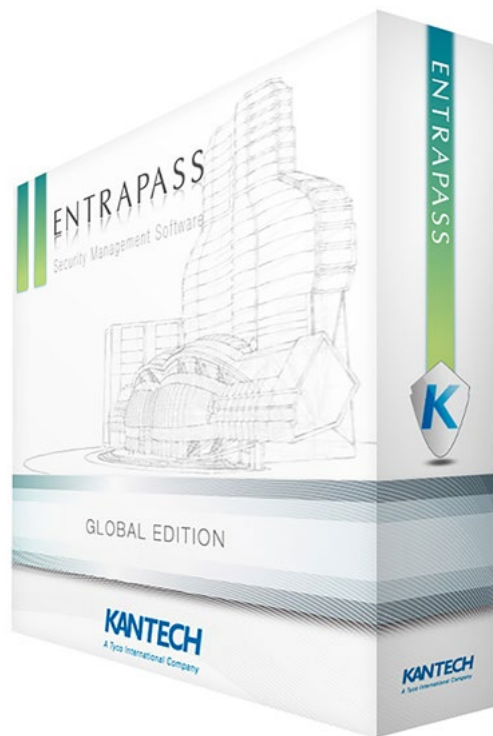
EntraPass Global Edition

Enterprise-Level Security Management Software

EntraPass Global Edition is a network-ready, enterprise-level security management software solution. This powerful solution accommodates widely-dispersed applications with an unlimited number of users controlling thousands of doors. In addition, it gives you the ability to simultaneously access the system from up to 128 workstations connected to the network.

A redundant server and gateway enhance fault tolerance and ensure the system is always running. Global Edition software integrates advanced security features, such as the EntraPass go mobile app and the EntraPass web platform, to deliver remote and convenient access to common access control, video, and intrusion tasks.

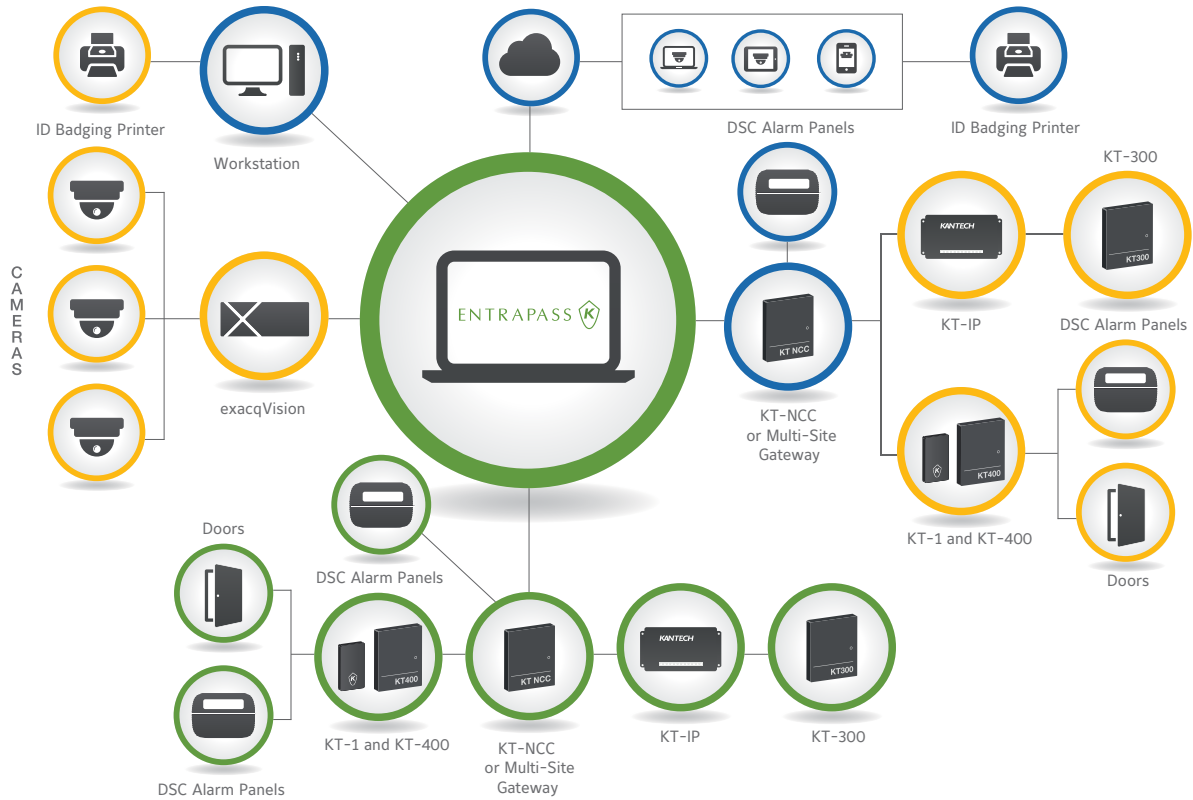
The enhanced user experience makes navigation and operation easy and intuitive. Each EntraPass Global Edition software package includes four additional Workstation licenses, one Server/Workstation license, one Global Gateway (Windows NCC) license, and one web license.



Features

- Supports up to 128 workstations and controls hundreds of thousands of doors
- Automatically log into EntraPass with Windows® credentials using Single Sign-On in Microsoft™ Active Directory
- Global virtual alarm system, anti-passback, guard tours, and muster reporting
- Gain access to doors with a one-time unlock command using the EntraPass go mobile app
- Redundant server and gateway to enhance the fault-tolerance capabilities of the system
- Supports up to 200 concurrent logins with EntraPass web and/or EntraPass go
- Full integration with exacqVision NVRs, American Dynamics VideoEdge NVRs, and DSC PowerSeries Neo intrusion alarm panels
- Integrates with ASSA ABLOY™ Aperio wireless locks for integrated lock management solution

EntraPass Global Edition Software



EntraPass Global Edition

| Model | Description |
|-----------|--|
| E-GLO-V8 | EntraPass Global Edition software |
| E-GLO-LIC | EntraPass Global Edition software license |

Additional Workstation and Gateway Licenses

| Model | Description |
|------------------|---|
| E-GLO-WS1 | License for 1 Workstation (v3.xx and higher) |
| E-GLO-WS8 | License for 8 Workstations (v3.xx and higher) |
| E-GLO-COM-WIN | License for 16 Global Gateways – Windows NCC – (v3.xx and higher) |
| E-GLO-CORCOM | License for 40 Multi-Site Gateways (v3.xx and higher) |
| E-GLO-CORCOM-RDN | License for Redundancy Gateway (v7.0 and higher) |

EntraPass Global Edition Options

| Model | Description |
|---------------|--|
| E-GLO-LDAP | License for Active Directory (LDAP) integration |
| E-GLO-RDN | License for 1 Redundancy Server (v3.xx and higher) |
| E-GLO-SQL | License for 1 Card Gateway – MS SQL Database Interface (v3.xx and higher) |
| E-GLO-VVM | License for 1 EntraPass VideoVault (v3.xx and higher) |
| E-GLO-WEB-X | License for concurrent web login (v4.xx and higher) (X = 1, 3, 10, 25 or 50) |
| E-GLO-INFVID | License for EntraPass InfiniView – 128 additional video servers (v5.01 and higher) |
| E-GLO-DVR-1 | License for single third-party DVR (v5.02 and higher) |
| E-GLO-DVR-UNL | License for unlimited third-party DVR (v5.02) |
| E-GLO-PASS-X | EntraPass go Pass (X=50, 100, 500) |
| E-GLO-CONNECT | License for 1 concurrent integration (v7.0 and higher) |
| E-GLO-GLY | EntraPass Global Edition v5 Licence enabling integration with the Honeywell Intruder Alarm Panel |

Kantech Advantage Program (KAP) Token

| Model | Description |
|-------------|--|
| E-GLO-KTK-X | Kantech Tokens (X = 1, 2, 3, 5, 10, or 20) |

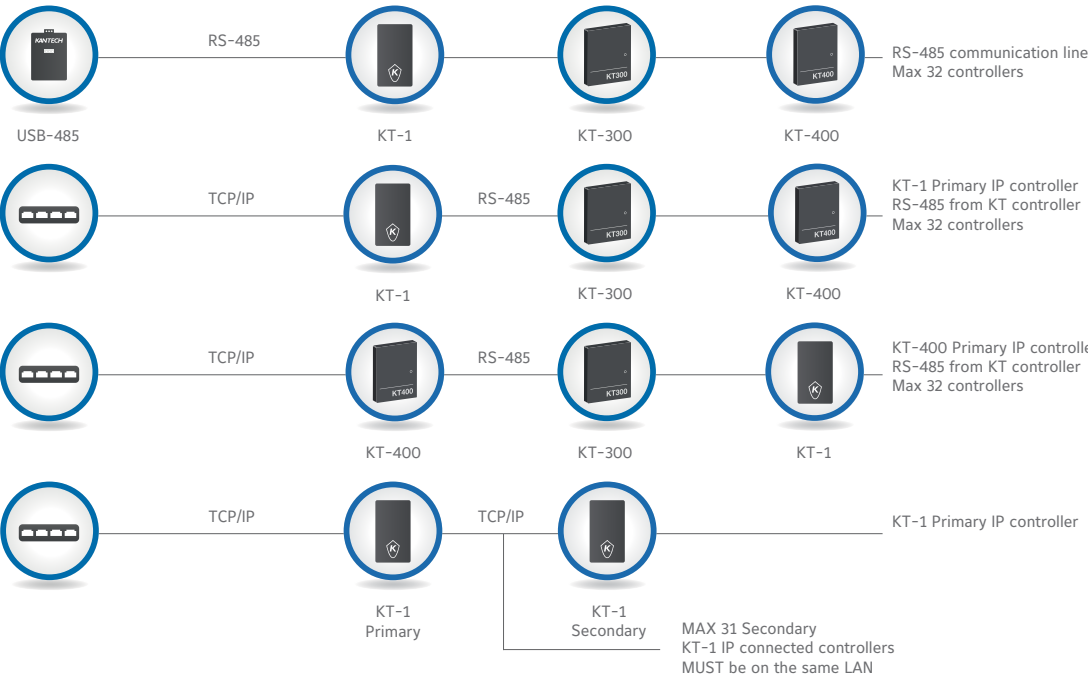
Wireless Lock Integration Licenses

| Model | Description |
|--------------|---|
| E-GLO-DOOR-X | Global Edition Wireless lock integration Licenses (X = 1, 4, 8, 24, 48, 96) |

EntraPass Architecture

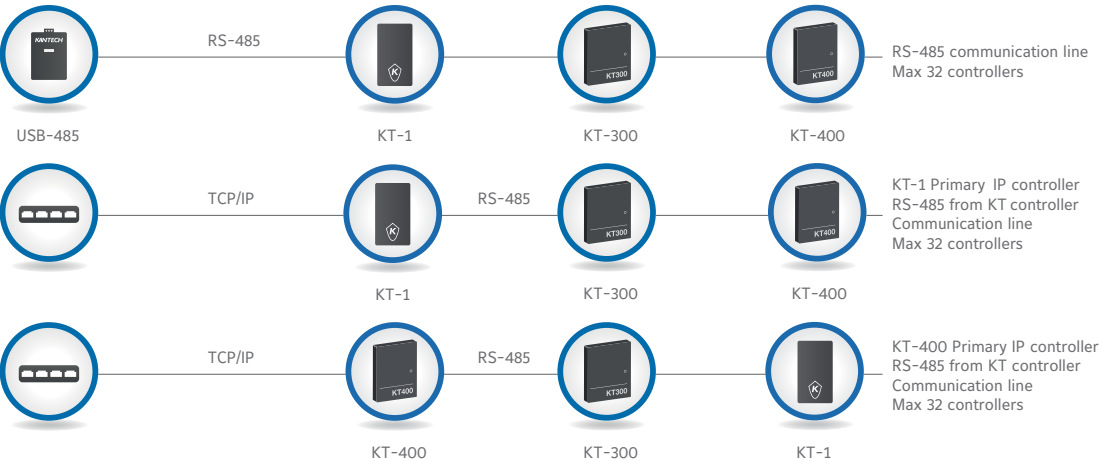
Gateways

System architecture for EntraPass Special Edition and Multi-Site Gateway architecture with EntraPass Corporate Edition and Global Edition



Global Gateways

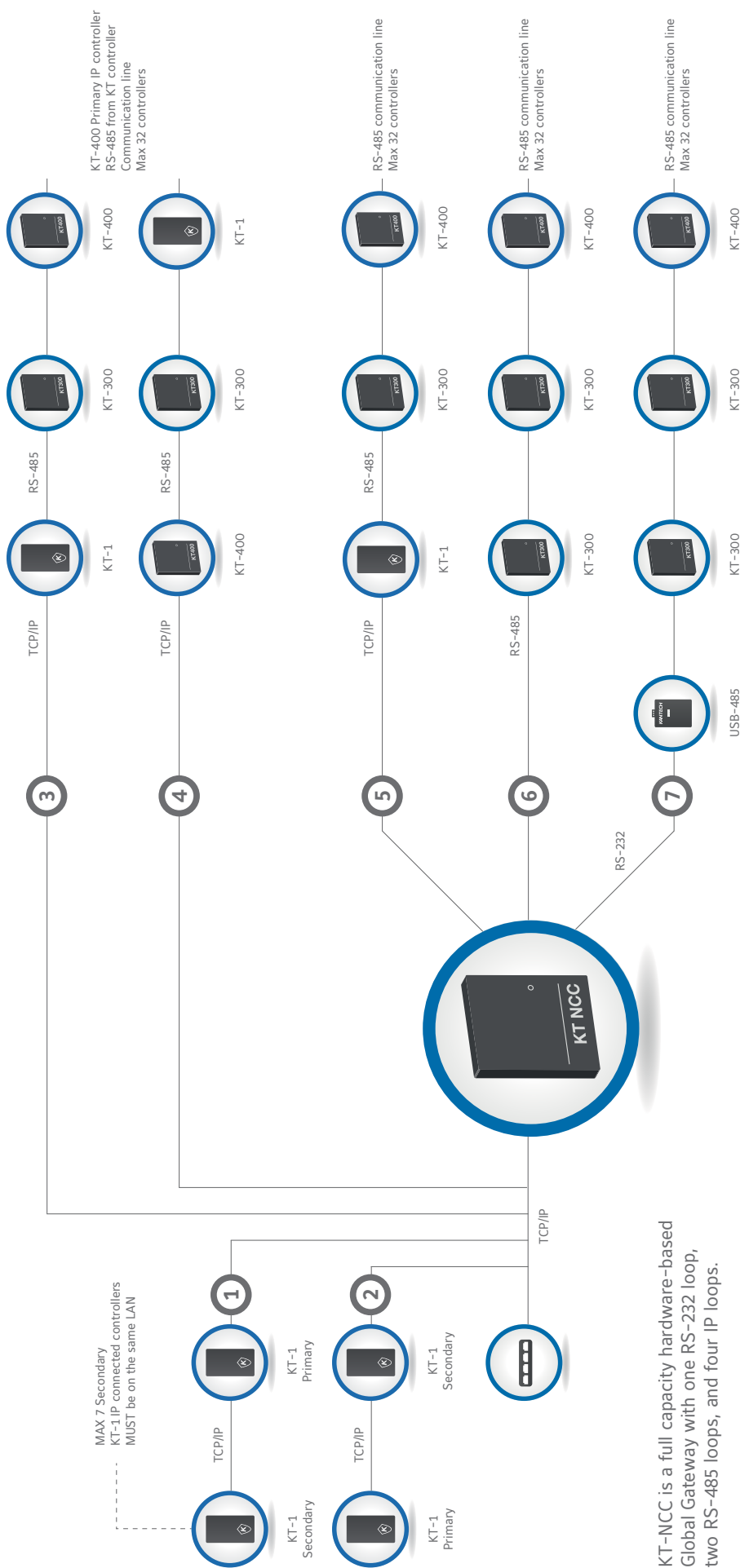
System architecture for EntraPass Special Edition and Multi-Site Gateways with EntraPass Corporate Edition and Global Edition



For RS-485 KT-controllers to a Primary controller connected to Global Gateway respect the maximum of eight controllers. It is advisable to use the KT controllers for remote site Global Gateway functionality.

Global Gateways KT-NCC

System Architecture for EntraPass Global Edition



KT-NCC is a full capacity hardware-based Global Gateway with one RS-232 loop, two RS-485 loops, and four IP loops.

EntraPass web



EntraPass web is a remote user platform that allows access to EntraPass security management software from any computer connected to the internet or via a mobile device.

It provides real-time management capabilities for various security-related tasks, including managing and creating cards, locking and unlocking doors, scheduling, requesting reports, and even more access control functionality.

Features

- Intuitive design
- Monitor, manage, and maintain security system without on-site personnel
- One interface for viewing video, operating intrusion system, and managing doors
- Configurable to your specific needs for higher productivity
- Connect multiple monitors
- Complete hardware setup
- Watch list alarms and email notifications

| EntraPass web Licenses for Corporate Edition | |
|--|--|
| Model | Description |
| E-COR-WEB-X | License for concurrent connection for EntraPass web station (X = 1, 3, 10, 25) |
| EntraPass web Licenses for Global Edition | |
| Model | Description |
| E-GLO-WEB-X | License for concurrent connection for EntraPass web station (X = 1, 3, 10, 25, 50) |

hatrix

hatrix is Kantech's powerful hosted/managed access control solution. It uses industry-renowned EntraPass security management software. By providing users with a full spectrum of hosted and managed access control services, hatrix ensures that each user receives a solution that is customised to their specific business needs. This level of innovation makes our access control system flexible and scalable, which reduces the infrastructural and training costs associated with traditional security systems.

hatrix offers compelling advantages for Managed Service Dealers (MSD), Managed Service Providers (MSP), and end users alike.



EntraPass go

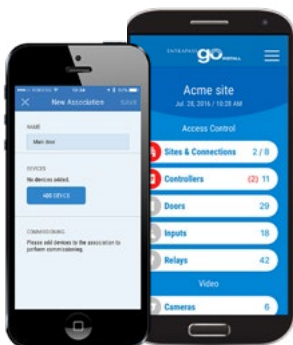


EntraPass go puts you in control of your security. EntraPass go allows you to remotely control your security system without being tied to a workstation. It enables you to interact with EntraPass security management software using only a few taps on your mobile device. EntraPass go allows you to access a wide range of functions remotely, including the management or creation of cards, the locking and unlocking of doors, and the instantaneous requesting of reports. EntraPass go is available for download on the App Store and Google Play. EntraPass go requires EntraPass Corporate Edition, or Global Edition v6.0 or higher.

Features

- Convenient and intuitive interface
- Manage cards and take a user's photo
- Integrates with EntraPass Corporate and Global Edition software
- Control more than 20 security tasks in real-time
- Apple and Android compatible

EntraPass go Install



The EntraPass go Install mobile app provides easy configuration of KT-1 and KT-400 door controllers by scanning a QR code. It enables you to interact with EntraPass security management software using only one tap and one scan on your mobile device.

Features

- "Kantech-easy" mobile app for installers
- QR code provides MAC address and serial number
- Easily associate Exacq video, DSC PowerSeries Neo intrusion panels, and Kantech card readers
- Commissioning reports
- Automatically save commissioning report with date, time, and technician name for easy retrieval
- Store corroborating photos such as door, reader, strike, and video camera in database for future service calls
- Store corroborating photos in database for future service calls
- Available for free on the iTunes App Store and Google Play

EntraPass go Pass

The EntraPass go Pass mobile app allows cardholders to gain access to doors, or other entry points, by simply pressing the appropriate icon in the app as they approach a door from anywhere, at any time. Using a Wi-Fi, 3G or 4G connection, the app communicates directly with the EntraPass system's server. Utilising access levels, the server then sends a one-time unlock command to the doors to which the cardholder has access. Customers can add thousands of EntraPass go Pass users to the system by simply sending them an email notification.

Features

- Give remote access
- Open doors using your mobile device
- Access rights are managed by EntraPass go
- Communication goes through the server
- No communication with reader or controller
- Can be activated or deactivated
- Link for download and access through email
- Support for Android and iOS mobile devices including Apple Watch



EntraPass go Pass Credentials for Corporate Edition

| Model | Description |
|----------------|--|
| E-COR-PASS-10 | Pack of 10 EntraPass go Pass credentials (v8.00 and higher) |
| E-COR-PASS-50 | Pack of 50 EntraPass go Pass credentials (v7.10 and higher) |
| E-COR-PASS-100 | Pack of 100 EntraPass go Pass credentials (v7.10 and higher) |
| E-COR-PASS-500 | Pack of 500 EntraPass go Pass credentials (v7.10 and higher) |

EntraPass go Pass Credentials for Global Edition

| Model | Description |
|----------------|--|
| E-GLO-PASS-10 | Pack of 10 EntraPass go Pass credentials (v8.00 and higher) |
| E-GLO-PASS-50 | Pack of 50 EntraPass go Pass credentials (v7.10 and higher) |
| E-GLO-PASS-100 | Pack of 100 EntraPass go Pass credentials (v7.10 and higher) |
| E-GLO-PASS-500 | Pack of 500 EntraPass go Pass credentials (v7.10 and higher) |

How to link with other systems: EntraPass Database Integrations

SQL Database Access

EntraPass security management software – Global Edition offers an embedded high-performance SQL database engine that allows administrators to generate custom reports from the EntraPass database. Use the powerful Open Database Connectivity (ODBC) protocol to connect to third-party reporting tools and to create your own reports.

LDAP Connector, synchronising users and operators

Active Directory is a commonly used authentication directory supporting enterprise IT systems that synchronise contact information and scheduling integration, along with providing a means for centralised desktop access management. EntraPass now synchronises EntraPass users and operators with Microsoft™ Active Directory users, which eliminates the manual creation and maintenance in EntraPass. Note that Active Directory is the authoritative source and is never modified by EntraPass. Synchronization with Active Directory also permits Single Sign-On authentication. This means that operators are authenticated with their Windows credentials, which allows them to automatically log on to an EntraPass workstation with a single click. Up to ten concurrent Active Directory connections are possible.

Features

- Single user name and password
- Password synced between Active Directory and LDAP Directory Services
- Reduced overheads through standardization
- Improved services through centralised management capabilities
- Improved workstation security

Active Directory Integration LDAP License for Corporate Edition

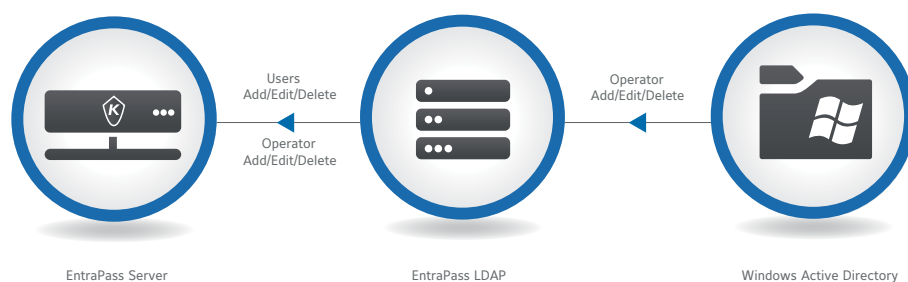
| Model | Description |
|------------|---|
| E-COR-LDAP | License for Active Directory LDAP integration |

Active Directory Integration LDAP License for Global Edition

| Model | Description |
|------------|---|
| E-GLO-LDAP | License for Active Directory LDAP integration |

Active Directory Integration

Microsoft™ Active Directory integration for operator and user management



Alarm Panel Integration

By integrating all security assets such as intrusion detection, access control, video, and telephone entry into one common platform, users can interface with just one system for greater simplicity and optimum control.

The integration kits connect a DSC intrusion alarm panel to a Kantech access control system to create a single integrated solution. Integration with DSC PowerSeries or MAXSYS intrusion alarm panels allows the access control system to receive intrusion events, view the status of zones, and to manage partitions/user codes along with serial communication between Kantech controllers and DSC PowerSeries Neo intrusion panels. Kantech also offers new IP connectivity. This not only creates

flexibility in cabling, but intrusion panel connections over IP can be assigned to a gateway or one controller (KT-1/KT-400) for ease in day-to-day configuration and security tasks.

Virtual Zones

To overcome system complexity for end users, a clean straightforward visualization of sites, zones, and status is needed. There is no longer a need to wire the door contacts for the intrusion panel – simply use the one used in the access control system. The alarm generated on the access control system can trigger a zone alarm on the DSC PowerSeries Neo. EntraPass makes use of up to 32 definable virtual zones in DSC PowerSeries Neo, giving the customer the ability to share physical door contacts and monitoring

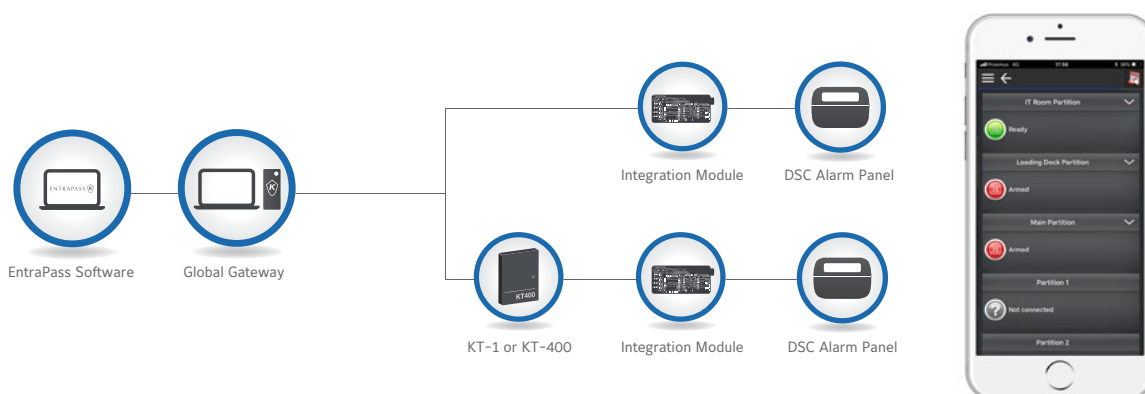
of doors, controllers, inputs, and events. This deeper level of integration reduces costs and provides a higher level of situational awareness.

With the enhanced interaction between intrusion and access control systems, operators in the central monitoring stations have a better view of the situation on-site. It gives them the ability to act more quickly and efficiently to security issues. Kantech provides a one system experience with a holistic view of all security functions.

All Tyco video platform integrations are, by default, available with EntraPass. Approved third-party video integrations with EntraPass may require additional optional licenses.

Features

- Integration of EntraPass access control system and DSC intrusion systems
- Multiple panels supported – PowerSeries, PowerSeries Neo, and PowerSeries Pro
- Integrated virtual DSC keypad used to remotely arm or disarm DSC panels (not available on Neo interface)
- DSC panels and sensor locations are represented on graphical maps
- DSC intrusion alarms are reported instantly on EntraPass Modify alarm panel user codes to or from EntraPass
- Intrusion events can trigger video recordings for fully integrated access, video, and intrusion security management



Video Integrations

Real-time monitoring capability is a response to the growing importance of video in access control systems. Integration with Exacq video management systems, American Dynamics Digital Video Recorders (DVRs)/NVRs (VideoEdge, Hybrid Video Recorders (HDVR), ADTVR, Intellex), and Kantech

INTEVO Integrated Security Platform provides real-time video monitoring as well as video playback. Video clips can be linked to access events (such as "door forced open") and recorded from one to sixteen cameras to a compatible DVR/ NVR simultaneously. All cameras can easily be called up directly from a floor

plan by double-clicking on the camera or dome icon.

All Tyco video platform integrations are, by default, available with EntraPass. Approved third-party video integrations with EntraPass may require additional optional licenses.

| Third-Party Video Integration Licenses for EntraPass Corporate Edition | |
|--|--|
| Model | Description |
| E-COR-DVR-1 | License for single Third-Party DVR (v5.02 and higher) |
| Third-Party Video Integration Licenses for EntraPass Global Edition | |
| Model | Description |
| E-GLO-DVR-1 | License for single Third-Party DVR (v5.02 and higher) |
| E-GLO-DVR-UNL | License for unlimited Third-Party DVR (v5.02) |
| E-GLO-INFVID | License for EntraPass InfiniView - 128 additional video servers (v5.01 and higher) |

Video Vault

Video Vault offers an alternative to manually saving each video clip one by one. Simply pre-define groups for the video clips, such as "door forced open" or "access denied". Video Vault then saves the clips to the appropriate group based on whatever schedules are chosen. Video clips can also be organised as .BMP images in lieu of icons.

It can connect up to 128 Exacq and/or American Dynamics NVRs via integration with EntraPass software and can archive the imported video to as many as 24 digital storage devices. Video Vault requires EntraPass Corporate Edition or Global Edition v3.xx and higher.

Features

- Organise video clips by event category for future reference
- Thumbnail images can be created on the first frame of each video clip
- Stores unlimited amount of video clips
- Automatically associate .BMP image with each video clip
- Connect up to 128 Exacq and/or American Dynamics NVRs

| Video Vault Integration Licenses for EntraPass Corporate Edition | |
|--|---|
| Model | Description |
| E-COR-VVM | License for 1 EntraPass VideoVault (v3.xx and higher) |
| Video Vault Integration Licenses for EntraPass Global Edition | |
| Model | Description |
| E-GLO-VVM | License for 1 EntraPass VideoVault (v3.xx and higher) |



INTEVO – Integrated Security Platform

INTEVO is an easy-to-deploy integrated security platform that gets you up and running in minimal time. It is simple to configure, built on Windows 10 IoT and includes a customised dashboard for easy system management. INTEVO integrates access control, IP video, and intrusion into one common and powerful platform to deliver a holistic security solution. It is pre-loaded with Kantech's EntraPass security management software – Corporate Edition, exacqVision video management software, and includes support for DSC PowerSeries and PowerSeries Neo intrusion alarm panel integration.

INTEVO provides an ideal platform for small to medium size businesses, especially as they can grow the system to meet their organizational needs over time. INTEVO also supports the EntraPass web remote user platform and the EntraPass go mobile application right out of the box. It is also compatible with advanced EntraPass features such as VideoVault and Redundant Server. Seamless integration of the latest version of exacqVision video management software provides real-time video monitoring and playback. The inclusion of exacqVision allows INTEVO to offer faster and more intuitive video searching capabilities.



INTEVO Compact features

- Plug and play capability
- Pre-configured for EntraPass go mobile app and EntraPass web remote user platform
- Connects up to 32 IP cameras
- 16 x 1080p@30FPS
- 32 x 1080p@15FPS
- Seamless integration of exacqVision video management software
- Windows 10 IoT
- 4 PoE ports with Dynamic Host Configuration Protocol (DHCP) for controllers and cameras
- Retain the latest version of EntraPass through auto-update on initial power-up

| INTEVO Compact | |
|---|--|
| Model | Description |
| INTEVO-CMP-2TB | INTEVO Compact with 2TB hard drive, includes 2 IP camera channel licenses. |
| INTEVO Compact Licenses and Software Service Agreements | |
| Model | Description |
| INTEVO-IPCAM01 | 1 IP camera channel license |
| INTEVO-IPCAM04 | 4 IP camera channel licenses |
| INTEVO-IPCAM08 | 8 IP camera channel licenses |
| INTEVO-IPCAM16 | 16 IP camera channel licenses |
| INTEVO-CMP2SSA1Y | INTEVO Compact Gen 2, one-year Support Software Agreement (SSA). Adds one year to the current SSA expiry date of the INTEVO. |
| INTEVO-CMP2SSA | INTEVO Compact Gen 2, Retroactive Support Software Agreement (SSA). Sets SSA to the current date regardless of SSA expiry date. Only required if SSA is expired for over one year. |
| INTEVO Compact Accessories | |
| Model | Description |
| INTEVO-CMP-PS2 | External power supply (Compact Gen 2) |
| INTEVO-CMP-RM2 | INTEVO Gen 2 Rack Mount Kit (Compact Gen 2 only) |
| INTEVO-KEYBOARD | USB wired keyboard |
| INTEVO-MOUSE | USB wired mouse |

INTEVO Advanced

INTEVO Advanced features

- Plug and play capability
- Pre-configured for EntraPass go mobile app and EntraPass web remote user platform
- Connects up to 64 IP cameras
- 32 x 1080p@30FPS
- 64 x 1080p@15FPS
- Seamless integration of exacqVision video management software
- Windows 10 IoT
- Eight Power over Ethernet (PoE) ports with DHCP - eight for all cameras, or four controllers or four cameras
- Retain the latest version of EntraPass through auto-update on initial power-up



| INTEVO Advanced | |
|--|--|
| Model | Description |
| INTEVO-ADV-4TB | INTEVO Advanced with 4TB hard drive. Includes 4 IP camera channel licenses. |
| INTEVO Advanced Licenses and Software Service Agreements | |
| Model | Description |
| INTEVO-IPCAM01 | 1 IP camera channel license |
| INTEVO-IPCAM04 | 4 IP camera channel licenses |
| INTEVO-IPCAM08 | 8 IP camera channel licenses |
| INTEVO-IPCAM16 | 16 IP camera channel licenses |
| INTEVO-ADV2SSA1Y | INTEVO Advanced Gen 2, one-year Support Software Agreement (SSA). Adds one year to the current SSA expiry date of the INTEVO. |
| INTEVO-ADV2PSSA | INTEVO Advanced Gen 2, Retroactive Support Software Agreement (SSA). Sets SSA to the current date regardless of SSA expiry date. Only required if SSA is expired for more than one year. |
| INTEVO Advanced Accessories | |
| Model | Description |
| INTEVO-ADV-PS2 | External power supply (Advanced Gen 2) |
| INTEVO-ADV-RM2 | INTEVO Gen 2 Rack Mount Kit (Advanced Gen 2 only) |
| INTEVO-KEYBOARD | USB wired keyboard |
| INTEVO-MOUSE | USB wired mouse |

INTEVO LTE

Features

- Plug and play capability
- Pre-configured for EntraPass Go mobile app and EntraPass Web remote user platform
- Ideal for 4 x MP IP Cameras. For the best performance capacity use online calculation tool
- Featuring latest version of exacqVision video management software – faster and more intuitive search
- Seamless integration of exacqVision video management software
- Windows 10 embedded



INTEVO LTE Part Codes:

| Model | Description |
|-------------------|--|
| INTEVO-LTE-2TB | INTEVO Compact LTE with 2TB hard drive. Includes 2 IP camera channel licenses. |
| INTEVO-IPCAM01* 1 | IP camera channel license |
| INTEVO-IPCAM04* | 4 IP camera channel license |
| INTEVO-IPCAM8* | 8 IP camera channel license |
| INTEVO-IPCAM16* | 16 IP camera channel license |
| INTEVO-LTE2SSA1Y | INTEVO LTE Gen 2, ONE YEAR Support Software Agreement (SSA). Adds one year to the current SSA expiry date of the INTEVO. |
| INTEVO-LTE2SSA3Y | INTEVO LTE Gen 2, THREE YEAR Support Software Agreement (SSA). Adds three years to the current SSA expiry date of the INTEVO. |
| INTEVO-LTE2PSSA | INTEVO LTE Gen 2, Retroactive Support Software Agreement (SSA). Sets SSA to the current date regardless of SSA expiry date. Only required if SSA is expired for over one year. |
| INTEVO-LTE-PS2 | External power supply (LTE) |

KT-1 Part Codes:

| Model | 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-EU-MET-POE | KT-1 One door controller with PoE+ battery charger is a KIT part of KT-1-PCB + KT-1-CAB-POE |

KT-1 Accessories:

| Model | Description |
|--------------|--|
| KT-1-CAB-P | Plastic enclosure ONLY for KT-1-PCB |
| KT-1-CAB-PSU | Metal enclosure with PSU for KT-1-PCB, Switch Mode 12 Volt 2A Power Supply, Mains and Battery Monitoring outputs. Dimensions 275H x 330W x 80D, Space to house a 12V 7Ah Battery |
| KT-1-CAB-POE | Metal enclosure with Battery backup PoE for KT-1-PCB, PoE+ (PoE 802.3at) 16W including battery charge. Supplies battery back-up on loss of PoE power. Dimensions 275H x 330W x 80D, Space to house a 12V 7Ah Battery |

Integration flexibility with Connected Partner Program

The Connected Partner Program from Kantech gives third-party technology partners the opportunity to integrate with our security solutions. Through the Connected Partner Program, partners can connect to a Kantech EntraPass access control system, enabling a high-quality integration with every installation. The Connected Partner Program also gives our partners the functionality to upgrade integrations in sync with every upcoming release.

Tyco Security Solutions makes it easy for all partners to go through our self-certification process. Our partners can select the speed they want to design and develop the integration. Partners have the opportunity to validate the integration, ensure feature support, and optimise performance with Tyco's facilitation and support every step of the way.

Tyco offers private access to our fully equipped test labs and direct access to our best-in-class technical and engineering support team. Our dedicated support team will ensure that all your questions are answered for a seamless integration.

Integration Types

- Our Application Program Interface (API) and sample source code provides partners with the tools they need to develop an integrated security solution
- The web service provides a RESTful API with the ability to interface with the application server database

Where to start

Complete an online application at <https://connectedpartnerprogram.partnerproducts.com> providing as much detail as possible to start the process.

Once the application is completed, the Connected Partner Program team will review the application and walk you through the next steps to move forward with the partnership.

connected

PARTNER PROGRAM

Avoid unplanned downtime with EntraPass Redundancy Architecture

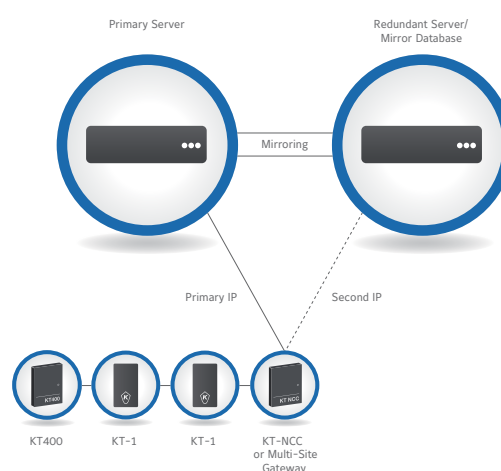
Server Redundancy and Database Mirroring

A redundancy server protects the EntraPass database against unexpected failures and is an option available with Corporate and Global Edition software. It features real-time data transfer, creating fully functional redundancy at a low cost. In the event of primary server failure, the mirror database automatically launches the redundancy server that supports all the features and functionality of the primary server. Best of all, the redundancy server is easy to implement and configure. Multiple redundant servers with a mirror database can be used to provide local redundancy in an enterprise environment.

Features

- Easy to implement and configure
- Connect up to 128 redundant servers
- Fast and reliable data transfer
- Hardware and software redundancy
- Automatic switch over to redundant server
- Real-time data synch – achieve accurate and consistent data across the platform

Server Redundancy



Enable server redundancy with EntraPass Corporate Edition

| Model | Description |
|-----------|--|
| E-COR-RDN | License for 1 Redundancy Server (v3.xx and higher) |

Enable server redundancy with EntraPass Global Edition

| Model | Description |
|-----------|--|
| E-GLO-RDN | License for 1 Redundancy Server (v3.xx and higher) |



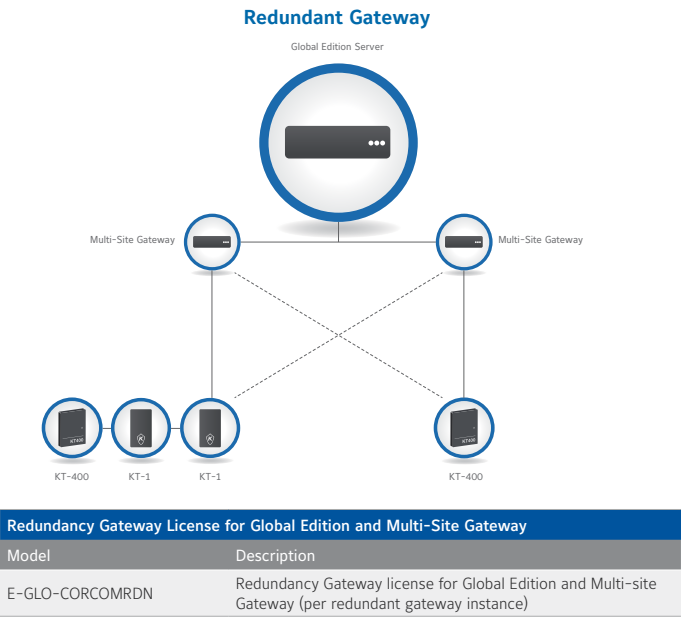
Gateway Redundancy- Secured Communication

Server Redundancy and Database Mirroring

Keeping your security system running is of the utmost importance. Critical information and functionality as well as the safety of people and the security of facilities and property are at stake when a security system is not functioning properly. In the event of a gateway failure, EntraPass will switch to the redundant gateway automatically when the connection to the primary gateway is lost so there is no system downtime.

Features

- Up to two redundant gateways per gateway
- Customers can manually failover for a planned event
- Only available with Global Edition and Multi-Site Gateways



Kantech Controllers



With a controller for every application, Kantech's portfolio is designed to be easy to install and maintain. From the full-featured, Ethernet-ready KT-400, offering the highest levels of security and integration capabilities, to the easily deployed and affordable standalone KT-1, Kantech's door controller family provides users with a wide range of scalable options.



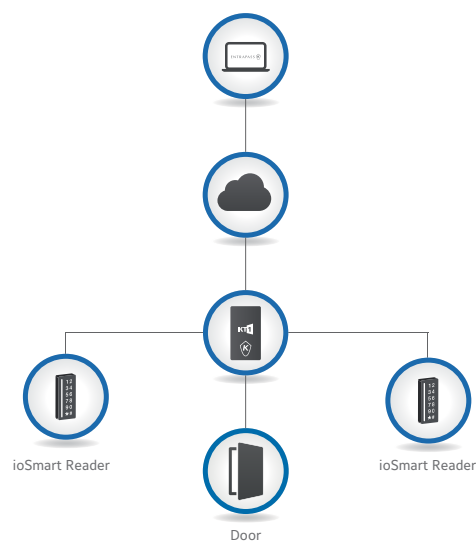
| | KT-1 | KT-300 | KT-400 |
|--|--------|-------------------|--------|
| Number of Online Doors | 1 | 2 | 4 |
| ASSA ABLOY™ Aperio Wireless Doors | 8 | x | 8 |
| Encrypted Communication over IP | ✓ | x | ✓ |
| Serial Communication | RS-485 | RS-232 and RS-485 | RS-485 |
| Power over Ethernet (PoE+) | ✓ | x | ✓ |
| Power +12V DC Battery Backup | ✓ | ✓ | ✓ |
| Number of Cards in Offline Mode | 100k | 8K/56k | 100k |
| Events in Offline Mode | 20k | 18k | 20k |
| Inputs and Output Expansion Boards | ✓ | ✓ | ✓ |
| Direct DSC PowerSeries Neo Integration | ✓ | x | ✓ |
| Standalone Mode, Embedded Web Server | ✓ | x | ✓ |

Kantech Standalone Controllers

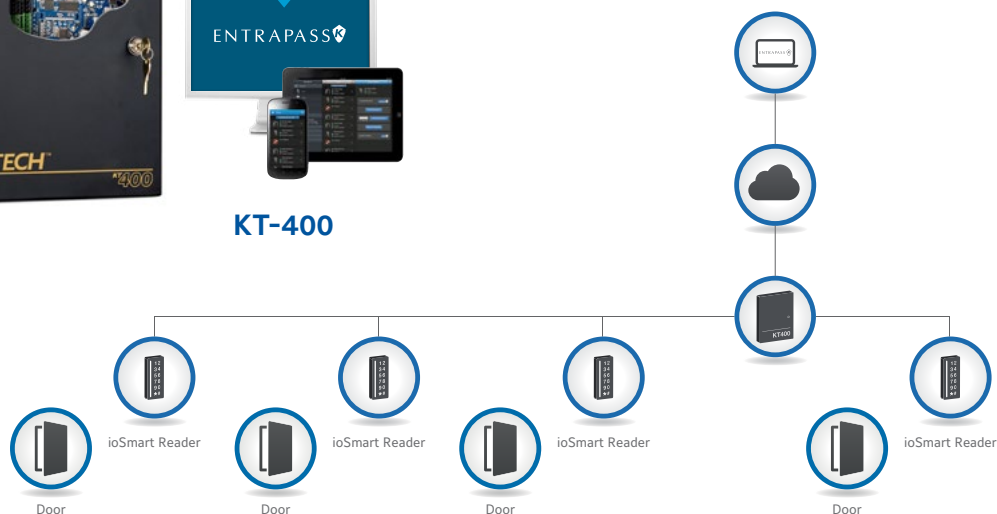
Kantech's KT-controllers can also operate in Standalone Mode. This gives you the option to control and manage your controllers via a simple, intuitive, web-based software program. This lowers the total cost of the access control system, and eliminates the need for customers to purchase and maintain dedicated EntraPass security management software and workstations.



KT-1 Standalone



KT-400 Standalone



KT-1 One-Door Controller

Single Door Controller

The KT-1 Ethernet-ready one-door controller supports two readers (entry and exit) and can be configured in two user-friendly operating modes. KT-1's Standalone Mode offers basic one-door security using a simple web browser 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.

One-Touch Setup

With its elegant design and innovative single button enrollment, KT-1 offers installers the ultimate experience in access control installation. Simply provide an IP connection, push the touch-sensitive button and you are done. Power over Ethernet (PoE) KT-1 has flexible power input including support for Power over Ethernet and PoE+ technology. Using a single Ethernet cable, the KT-1 controller connects directly from an Ethernet PoE injector to the EntraPass system. This eliminates the need for a local mains power supply at the door.

Web-based Software Solution

Ideal for small sites that only need basic door security, the KT-1 single-door IP controller features an embedded web server that enables it to operate in Standalone Mode – meaning no EntraPass software is required. Intuitive and responsive web-based software enables you to simply manage and configure your single-door security from anywhere, using a desktop or mobile device.

| KT-1 Part Codes: | |
|-------------------|--|
| Model | 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-EU-MET-POE | KT-1 One door controller with PoE+ battery charger is a KIT part of KT-1-PCB + KT-1-CAB-POE |
| KT-1 Accessories: | |
| Model | Description |
| KT-1-CAB-P | Plastic enclosure ONLY for KT-1-PCB |
| KT-1-CAB-PSU | Metal enclosure with PSU for KT-1-PCB, Switch Mode 12 Volt 2A Power Supply, Mains and Battery Monitoring outputs. Dimensions 275H x 330W x 80D, Space to house a 12V 7Ah Battery |
| KT-1-CAB-POE | Metal enclosure with Battery backup PoE for KT-1-PCB, PoE+ (PoE 802.3at) 16W including battery charge. Supplies battery back-up on loss of PoE power. Dimensions 275H x 330W x 80D, Space to house a 12V 7Ah Battery |

Easy and flexible installation

The KT-1 controller features a removable terminal clip and is extremely simple to install. Flexible cabling and system architecture using an Ethernet or serial RS-485 port from controller to controller.



Features

- Supports two readers (entry and exit)
- Single capacitive touch button for fast controller enrollment
- Flexible architecture with serial and Ethernet connectivity
- Highly secure 128-bit AES encryption
- Interchangeable connections for easy install or replacement
- Flexible power input – PoE, PoE+, or 12 VDC
- Choose from single-gang mount (KT-1), or cabinet mount (KT-1-PCB) installation options
- DSC PowerSeries Neo panel-to-panel intrusion integration

| Features | Description |
|------------------|--|
| Cardholders | 2000 |
| Events | 60,000 (Offline Mode) |
| Operators | 2 (Installer, Operator) |
| Schedules | 20 (5 intervals) |
| Holidays | 25 |
| Action Scheduler | 100 |
| Browsers | Safari®, Google Chrome®, Mozilla Firefox®, Internet Explorer®, Microsoft Edge® |
| Integrations | Basic intrusion via relays |
| Upgrade Path | EntraPass/hatrix |
| Languages | English, French, Spanish, Italian |

KT-300 Two-Reader Controller

Two-Door Controller

The KT-300 door controller supports up to two readers, installed on either a single door to monitor both entry and exit or on two separate doors. It provides connections for all peripheral devices necessary for a complete access control system and can link with other door controllers to give you control over thousands of doors. Offline mode protects against power or system failures where the system stores cardholder

and event data – this information is automatically transmitted back to the EntraPass system once the network connection is restored.

Connectivity

With integral built-in Combus communication expansion, relay, input and output modules can be added to connect HVAC systems, elevators, motion detectors, and other devices.



Features

- Supports two readers and two doors
- Ready to go, no dual in-line package (DIP) switches or jumpers to set
- Serial connectivity
- Provides 5V and 12V reader power
- Self-resetting PTC power outputs individually protected against short circuits
- Choice of 128K or 512K memory capacities

| KT-300 | |
|--------------------------|--|
| Model | Description |
| KT-300EU-8K | KT-300 controller support up to 8,000 card holders. Enclosure supplied with transformer to power KT-300PCB + PSU to provide up to 500mA @ 12VDC for locking per lock output |
| KT-300EU-56K | KT-300 controller support up to 56,000 card holders. Enclosure supplied with transformer to power KT-300PCB + PSU to provide up to 500mA @ 12VDC for locking per lock output |
| KT-300PCB128 | KT-300 two-door controller PCB only, 128KB memory, accessory kit (KT-300-ACC) |
| KT-300PCB512 | KT-300 two-door controller PCB only, 512KB memory, accessory kit (KT-300-ACC) |
| KT-300 Expansion Modules | |
| Model | Description |
| KT-PC4108 | 8-zone programmable input expansion module |
| KT-PC4204 | 4-relay output and Combus power supply module |
| KT-PC4216 | 16-zone programmable output expansion module |
| KT-300 Accessories | |
| Model | Description |
| KT-300-ACC | KT-300 accessory kit, includes: two 1.0K ohm, ten 5.6K ohms, two 120 ohms end-of-line resistors, PCB standoff, lock hole cover, ground wire, and screwdriver |
| TYCO-A-ACCESS | European enclosure for KT-300. Enclosure supplied with transformer for KT-300 PCB and power supply for up to 500mA @ 12VDC for each lock output |
| KT-RM1 | External isolation relay, single pole, double through Single Pole Double Throw (SPDT) for output RL1/RL2 |
| KT3-LCD | LCD time and date display |
| KT-300CAB | Black metal cabinet with lock (KT-LOCK) |
| KT-4051CAB | Black metal cabinet for KT-300 expansion modules |
| KT-LOCK | Lock for KT-300-CAB and KT-4051-CAB, metal cabinets, 2 keys |
| KT-300FLASH | Replacement firmware |
| KT-TAMPER | Tamper switch for KT-300-CAB and KT-4051CAB metal cabinets |

KT-400 Four-Door Controller

Four-Door Controller

The KT-400 is an Ethernet-ready, four-door controller that provides 128-bit AES encrypted communication with the EntraPass security management software. It is a highly secure solution for any business that is conscious of security. The KT-400 can easily be integrated into an existing EntraPass system with other Kantech controllers (KT-1 and KT-300) or can provide the foundation for a brand new security installation.

KT-400 Four-Door Controller with Standalone Mode

The KT-400 single-door IP controller is perfect for compact sites that may only require simple door security. The controller uses an embedded web server to function in Standalone Mode so that no EntraPass software is needed. Our easy-to-use, web-based software lets you administer and organise your single-door security remotely, using a desktop or mobile device.

| Features | Description |
|------------------|--|
| Cardholders | 2000 |
| Events | 60,000 (Offline mode) |
| Operators | 2 (Installer, Operator) |
| Schedules | 20 (5 intervals) |
| Holidays | 25 |
| Action Scheduler | 100 |
| Browsers | Safari®, Google Chrome®, Mozilla Firefox®, Internet Explorer®, Microsoft Edge® |
| Integrations | Basic intrusion via relays |
| Upgrade Path | EntraPass/hatatrix |
| Languages | English, French, Spanish, Italian |



Features

- Supports four readers and four doors
- Supports eight readers and four doors using ioProx
- Extended Secure Format (XSF) readers
- Flexible architecture with Serial and Ethernet connectivity
- Highly secure 128-bit AES encryption
- 100,000 cards and 20,000 stored events in offline mode
- 256 outputs (four onboard) provide scalability
- DSC PowerSeries Neo panel-to-panel intrusion integration
- Double and triple swipe card at reader to activate relay, arm alarm system, lock/unlock

| KT-400 | |
|--------------------|--|
| Model | Description |
| KT-400-EU | Boxed EU version of four door, IP ready controller comprising PCB, Housing and Power Supply |
| KT-400-PCB | KT-400 PCB and accessory kit |
| KT-400 Accessories | |
| Model | Description |
| KT-400-ACC | Accessory Kit: resistors (4x 1K Ω , 32x 5.6K Ω), ground wire, battery connector and screwdriver |
| KT-400-CAB | Black metal cabinet with lock and keys |
| KT-400-CABEU | Black metal cabinet for KT-400-EU. Includes cabinet, detachable door, artwork and camlock. Does not include power supply |
| KT-MOD-CAB | Cabinet for up to 6 expansion modules, including lock, keys and 92 cm (36 in) Serial Peripheral Interface (SPI) cable |
| KT-TAMPER | Tamper switch |
| KT-LOCK | Cabinet lock and 2 keys |
| KT-400-CON | Removable terminal block |
| KT-3LED-PLATE | Alarm (3 LED) indicator |
| TR16100-240V | KT-400 transformer, wire-in, 240 VAC/ 16 Vac (100 VA), CE approved |

*Please see page 33 for compatible expansion modules.

Access Control Cable Reference

This table lists a wide range of cables for security and access control applications, including security control panels, junction boxes, door control, lock power systems, Request-to-exit (REX), and card reader systems. These cables provide fast and simplified security installations.

| Model | Max Length | Beleden Ref | Alpha Ref | Description |
|--|--|-------------|-----------|--|
| Readers and Keypads | | | | |
| ioSmart Readers KT-MUL and KT-SG Versions (RS-485 or Wiegand) | 150 m (500 ft) | 8742 | 1304C | 3 twisted pairs, solid, #22AWG, unshielded |
| ioSmart Readers KT-MUL and KT-SG Versions (RS-485 or Wiegand) | 150 m (500 ft) | | | UTP CAT 5E (1 pair for 12vdc+ and 1 pair for the 12vdc-) |
| ioProx Readers P225, P225KP, P325 and P325KP | 300 m (1000 ft) | 8742 | 1304C | 3 twisted pairs, solid, #22AWG, unshielded |
| P600 ioProx Reader | 150 m (500 ft) | 5304UE | N/A | 6 wire, stranded, #18AWG, unshielded |
| Multi-Technology Readers P345MTR and P345KPMTR | 150 m (500 ft) | 5304UE | N/A | 6 wire, stranded, #18AWG, unshielded |
| ioProx Receiver and Transmitters | 150 m (500 ft) | 9553 | 6428 | 3 twisted pairs, #18AWG, unshielded |
| Polaris-2 Readers | 150 m (500 ft) | 9554 | 6429 | 4 pairs, stranded, #18AWG, shielded (foil), drain wire |
| ShadowProx and Wiegand Readers | 150 m (500 ft) | 9553 | 6428 | 3 pairs, stranded, #18AWG, shielded (foil), drain wire |
| HID Readers | 150 m (500 ft) | 9553 | 6428 | 3 pairs, stranded, #18AWG, shielded (foil), drain wire |
| Bar Code Readers | 150 m (500 ft) | 9553 | 6428 | 3 pairs, stranded, #18AWG, shielded (foil), drain wire |
| KP-2500, ES-KTP/103SN | 150 m (500 ft) | 8466 | 1898/12C | 12 conductors, stranded, #18AWG, unshielded |
| Auxiliary devices | | | | |
| KT-1 N/A | 600 m (2,000 ft) | 9794 | 1204 | 4 conductors, solid, #22AWG, unshielded |
| KT-100 Inputs (zones 1-4) | | | | |
| KT-200 Inputs (zones 1-16) | | | | |
| KT-300 Inputs (zones 1-8) | | | | |
| T.Rex Request to Exit Detector | | | | |
| PB-EXIT Control Button | | | | |
| Serial Peripheral Interface (SPI) | | | | |
| KT-MOD-INP16, KT-MOD-OUT16, KT-MOD-REL8 | SPI cable 41 cm (16 in) for expansion modules, with connector at one end. Optional 92 cm (36 in) SPI cable with connector at one end is also available. | | | |
| Bus and Communications | | | | |
| RS-485 Bus from VC-485/USB-485 to KT-1/KT-100/200/300/400/ KTES to KT-1/KT-100/200/300 | 1,1 km (4,000 ft) | 1227A1 | N/A | 2 twisted pairs, #24AWG, unshielded, Ethernet Category 3 cable |
| RS-485 Bus, from KT-NCC to KT-1/KT-100/200/300/400 to KT-1/KT-100/200/300/400 | 1,1 km (4,000 ft) | 1227A1 | N/A | 2 twisted pairs, #24AWG, unshielded, Ethernet Category 3 cable |
| RS-232 from EntraPass System to KT-200/300/400 | 30 m (100 ft) | N/A | N/A | 6 conductors, #24AWG, stranded flat telephone cable |
| Power and Grounding System | | | | |
| AC Transformers to Kantech Products | 8 m (25 ft) | 9571 | 6501 | 2 conductors, solid, #18AWG, unshielded |
| Door Lock Power from KT-1/KT-100/200/300/400 | 150 m (500 ft) | 9571 | 6501 | 2 conductors, solid, #18AWG, unshielded |
| KT-1/KT-100/200/300/400 and KT-NCC Grounding | 8 m (25 ft) | N/A | N/A | 1 conductor, solid, #18AWG |

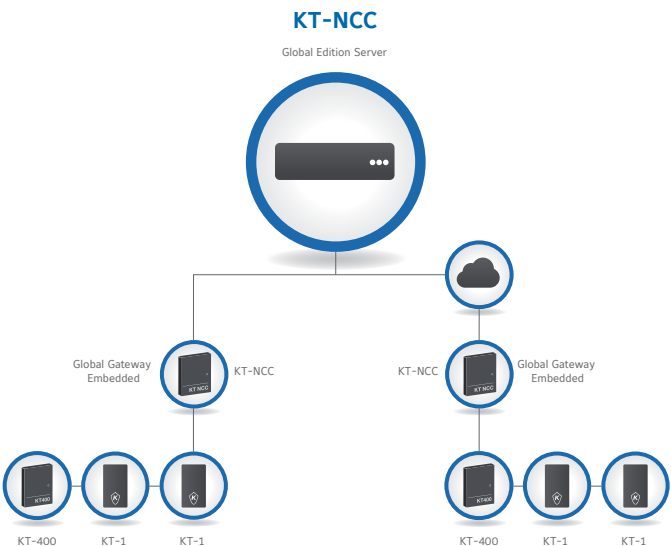
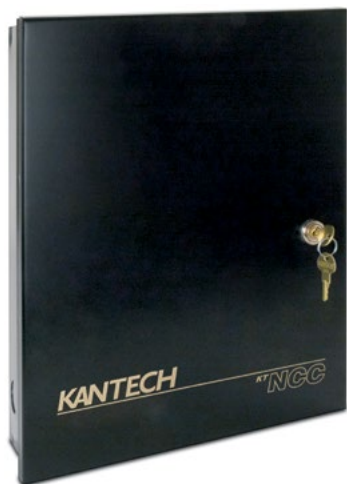
Kantech Network Communication Controller (KT-NCC) Gateway

EntraPass Global Gateway

The KT-NCC manages communication from the EntraPass Global Edition security management software to the door controllers. Instead of relying on a PC for communication between the controllers and server, the KT-NCC is a reliable wall-mounted, maintenance-free, Global Gateway. It also controls features and functions such as areas, alarm systems, global I/O, guard tours, and secondary access levels. It makes the access control system easier to manage, easier to expand, and much more reliable.

Features

- Powerful panel architecture removes a layer of PCs to improve reliability and save on costs
- Supports any combination of up to 128 controllers (KT-1, KT-300, and KT-400)
- Embedded redundancy ensures critical data is always protected
- LEDs provide system status
- Easy battery backup provides alternative for Universal Power Supply (UPS)
- Supports global functionality such as anti-passback, guard tours, and alarm systems management is easier



| KT-NCC Gateway | |
|--------------------|---|
| Model | Description |
| KT-NCC-EU | Kantech Embedded Network Communication Controller (NCC), includes: black metal cabinet (KT-NCC-CAB) and accessory kit (KTNCC-ACC) |
| KT-NCC-PCB | Embedded NCC PCB only, which includes an accessory kit (KT-NCC-ACC), battery cables and ground cable, plus hardware to affix the ground cable and the PCB |
| KT-NCC Accessories | |
| Model | Description |
| KT-NCC-ACC | Embedded NCC accessory kit includes RS-232 to VC-485 flat cable with RJ-12 male connectors and screwdriver |
| KT-NCC-CAB | Kantech NCC accessory, which includes a black metal cabinet with KT-LOCK and ground cable |

Network Communication Devices

Kantech offers network communication devices, including IP Link modules, converters, and modems - everything you need to secure entry and exit at your facilities.

Features

- Powerful panel architecture removes a layer of PCs to improve reliability and save money
- Supports any combination of up to 128 controllers (KT-1, KT-300, and KT-400)
- Embedded redundancy ensures critical data is always protected
- LEDs provide system status
- Easy battery backup provides alternative for UPS
- Supports global functionality such as anti-passback and guard tours, plus alarms systems management is made easier



IP Link
KT-IP is an RS-232 to TCP/IP interface that connects KT-300 door controllers to a network. It reduces cabling, and gives the controllers real-time access to information and enhanced functionality. The KT-IP is compatible with EntraPass software and uses 128-bit AES encryption to ensure secure communication. It also acts as a polling device to ensure the controllers communicate with EntraPass only as required, reducing network traffic.



| IP Link | |
|-----------|--|
| Model | Description |
| KT-IP | IP Link to RS-232 module with enclosure including ground wire, plastic stand off, cable/connector. 12VDC |
| KT-IP-PCB | IP Link to RS-232 PCB module including ground wire, plastic stand off, cable/connector. 12VDC |

VC-485 RS-232 to RS-485 Converter
VC-485 is an RS-232 to RS-485 protocol converter that acts as the interface between a host computer's RS-232 port and up to 32 door controllers connected together on an RS-485 multi-drop network. The maximum length for a RS-485 data line is 1200 meters. Powered by 5 or 12 VDC, VC-485 converters may be connected back-to-back to act as a repeater on the data line.



| VC-485 | |
|--------|---|
| Model | Description |
| VC-485 | RS-232/RS-485 protocol converter which allows a connection to a daisy-chained set of Kantech KT-Series controllers from a serial port on the host PC. Max bus length 1.2 km. Observe cable type requirements. |

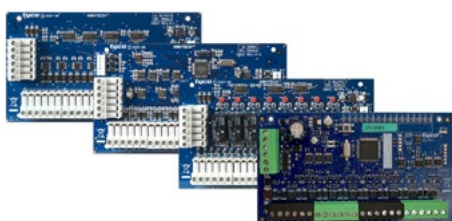
USB-485 USB to RS-485 Converter
The USB-485 unit is designed to connect to (and be powered by) the USB port of a host computer. It supplies the data at the required RS-485 communications protocol necessary for door controllers. Up to 32 door controllers can be connected together on an RS-485 multi-drop network. Installed between the host and the door controllers, the USB-485 permits a "daisy chain" configuration, which extends the maximum transmission distance to 1200 meters.



| USB-485 | |
|---------|--|
| Model | Description |
| USB-485 | "Transparent" USB/RS-485 protocol converter from a USB port on the host PC |

Input/Output Modules

The Kantech Input, Output, and Relay family of modules (INP16, OUT16, REL8, IO16) provides a flexible, cost-effective means to expand the Input/Output functionality of the KT-1 and KT-400 door controllers.



Features

- Provides cost-effective expansion of Input and Output capacity
- Small, modular size requires minimal panel space
- Reduces length of sensor and control wiring (IO16)
- Dedicated tamper input included on each module
- 16 terminals for use as inputs/outputs or elevator control (IO16)
- 16 LED indicators offering visual status of each terminal enable quick diagnostics and troubleshooting (IO16)
- Total of 256 inputs and 256 outputs per KT controller (IO16)
- Compatible with KT-1 (IO16 only) and KT-400 door controllers
- Fully compatible with EntraPass security management software (IO16 v8.10 and higher)

Expansion modules

| Model | Description |
|--------------|---|
| KT-MOD-IO16 | RS-485 Input/Output Module; compatible with KT-400 and KT-1 controllers |
| KT-MOD-INP16 | 16-zone input expansion module with 40 cm SPI cable (KT-MOD-SPI-16) |
| KT-MOD-OUT16 | 16-zone output expansion module with 40 cm SPI cable (KT-MOD-SPI-16) |
| KT-MOD-REL8 | Eight-relay expansion module with SPI cable (KT-MOD-SPI-16) |

Accessories

| Model | Description |
|---------------|---|
| KT-MOD-CAB | Cabinet for up to 6 expansion modules, including lock, keys and 92 cm (36 in) SPI cable |
| 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 (11.75 x 11.4 x 3 in) |
| KT-400-CAB | Black metal cabinet with lock and keys |
| KT-MOD-SPI-16 | 16 in SPI cable |
| KT-MOD-SPI-36 | 36 in SPI cable |

Kantech Readers

Kantech offers a full range of single and multi-technology readers and card options to fit any access control requirements. With smart card, proximity, biometric, multi-technology wireless long-range options, Kantech readers feature intuitive design for ease of use and installation. The entire line of readers are fully compatible for use with Kantech door controllers as part of a complete access control system.

ioSmart Smart Card and multi-technology readers

ioSmart

Based on MIFARE® Plus EV1, 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 multi-technology 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.

Versatile, Time-Saving Design

Unlike other solutions on the market that use restrictive, proprietary technology, ioSmart's open technology offers versatility. Based on MIFARE® Plus smart technology for readers, and MIFARE® Plus EV1 for credentials, ioSmart supports many different card formats, including HID® Prox.

The reader can also be used with any access controller using the Wiegand protocol. To save installation time and money, ioSmart Smart Card Readers can be wired directly to standard door contacts and T.Rex devices. ioSmart Smart Card Readers are available in single-gang or mullion models and can be installed in indoor or outdoor applications.

High Level of Security

ioSmart readers provide end-to-end AES 128-bit encryption between the ioSmart card and ioSmart reader when connected to KT-400 and KT-1 controllers over RS-485 and controllers to EntraPass software over IP.

Intuitive User Experience

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 an integrated backlit capacitive keypad for two-factor authentication, combining contactless card presentation with a PIN.

Future-Proof Technology

ioSmart Smart Card Readers are Bluetooth-ready and feature upgradeable field firmware, providing a solution that customers can rely on for long-term performance. Beyond access control, customers can use the ioSmart MIFARE® Plus EV1 card's additional unlocked sectors for third-party applications such as vending, cafeteria, bus/train, and other functions.

Features

- End-to-end encryption for added security
- Cost-effective solution to transition from Prox to advanced smart technology
- Open technology provides versatility
- Capacitive touch keypad available
- Bluetooth-ready for future-proofing
- Unique design allows time-saving wiring to standard door contacts and T.Rex devices
- Mullion and single-gang models
- Available on KT-1 and newer KT-400 controllers

| ioSmart readers | |
|-----------------|--|
| Model | 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 |



Specifications

| | | Mullion | | | Single-Gang | |
|---|--|----------------------|------------------|---|----------------------|------------------|
| Model | KT-MUL-MT-KP | KT-MUL-MT | KT-MUL-SC | KT-SG-MT-KP | KT-SG-MT | KT-SG-SC |
| RF Technologies | 13.56 MHz 125 kHz | 13.56 MHz 125 kHz | 13.56 MHz | 13.56 MHz 125 kHz | 13.56 MHz 125 kHz | 13.56 MHz |
| Power Consumption (mA) @ 12 VDC Peak/Average | 200 mA /80 mA | 100 mA /70 mA | 100 mA /70 mA | 200 mA/80 mA | 100 mA /70 mA | 100 mA /70 mA |
| Weight | 110 g (0.24 lbs) | 110 g (0.24 lbs) | 105 g (0.23 lbs) | 175 g (0.4 lbs) | 170 g (0.37 lbs) | 165 g (0.36 lbs) |
| Capacitive Touch Keypad with Backlighting | Yes | No | No | Yes | No | No |
| Typical Read Range 125 kHz ioProx ID-1 Credentials (Cards) | Up to 5.1 cm (2.0 in) | | NA | Up to 6.8 cm (2.7 in) | | NA |
| Typical Read Range 13.56 MHz MIFARE® Plus EV1, Encrypted Sector, ID-1 Credentials (Cards) | Up to 3.8 cm (1.5 in) | | | Up to 4.3 cm (1.7 in) | | |
| Mounting | Mullion | | | Single-Gang North America/Europe | | |
| Dimensions (H x W x D) | 115.8 x 44.6 x 24.7 mm 4.56 x 1.75 x 0.97 in | | | 115.8 x 71.5 x 24.7 mm 4.56 x 2.81 x 0.97 in | | |
| Supported Credentials 125 kHz | ioProx and HID | | NA | ioProx and HID | | NA |
| Supported Credentials 13.56 MHz | MIFARE® Plus EV1 and ISO/IEC 14443A and 14443B | | | | | |
| Supported Credentials BLE (Bluetooth Low Energy) 2.4 GHz | ioSmart mobile credentials and smart keys | | | | | |
| Wiring Terminal | 6 screwless poles | | | | | |
| Tamper | Optical | | | | | |
| Wiegand Communication Formats | Kantech Smart card Security Format (SSF), Kantech XSF, 26-bit, 34-bit | | | | | |
| Sounder | Integrated | | | | | |
| AES-128 Security | From the ioSmart card to the reader. From the reader to the access control unit over RS-485. From the smartphone application to the reader. | | | | | |
| Output | RS-485 or BLE panel-less: 1 supervised open-drain, up to 750 mA | | | | | |
| Operating Temperature | Non-UL listed product: -40°C to +70°C (-40°F to +158°F) UL listed product: -35°C to +66°C (-31°F to +151°F) | | | | | |
| Operating Humidity | 0 to 95% non-condensing | | | | | |
| LED Indicator | Multi-Colour bar: Red, Green, Yellow, Blue, configurable | | | | | |
| Inputs in Wiegand Mode | LED and buzzer | | | | | |
| Inputs in RS-485 | 2 to 4, configurable | | | | | |
| Inputs in BLE Panelless | 2 configurable | | | | | |
| Input Voltage | 8.5 VDC to 16 VDC (provided by UL 294 or UL 603 listed, power limited power source) | | | | | |
| Housing | Polycarbonate, smoked black | | | | | |
| Flammability Rating | UL94 V-2 | | | | | |
| Firmware | Fully upgradable using RS-485 | | | | | |
| Ingress Protection Rating | IP55 (not verified by UL) | | | | | |
| Communication | RS-485 (AES 128-bit), Wiegand or BLE (AES 128-bit) | | | | | |
| Cabling | 3 twisted pairs AWG 22 unshielded or CAT5, up to 150 m (500 ft) | | | | | |
| Warranty | Limited lifetime | | | | | |
| Certifications | FCC, IC, CE, UL 294, FIPS 197, RoHS, WEEE. For RS-485, NIST CAVP validation number AES 3667, key length 128. | | | | | |
| Compatible RS-485 Access Control Units | KT-400 (newer models without heatsinks only) and KT-1 | | | | | |



ioSmart Cards and Fobs

ioSmart Cards

Contactless smart cards offer advantages to both the organization issuing the card and the cardholder. A smart card provider can support multiple applications on a single card, consolidating an appropriate mix of technologies and supporting a variety of security policies for different situations. Applications such as logical access to computer networks, electronic payment, vending machines, and restaurant payments can be combined with physical access to offer a multi-application ID credential. Contactless smart card technology is based on ISO/IEC 14443 and ISO/IEC 15693 standards. Cards that comply with these standards are intelligent, read/write devices capable of storing different kinds of data, and operate at different ranges.

ioSmart cards are the new generation of the mainstream MIFARE® classic card, and offer enhanced security contactless smart card functionality. The ioSmart, an NXP MIFARE® EV1 Plus X technology, offers more flexibility to optimise speed and confidentiality. It offers a wide range of features, including proximity checks against relay attacks. MIFARE® EV1 Plus uses Advanced Encryption Standard (AES) for authentication, data integrity protection, and data encryption.



| ioSmart Credentials | |
|---------------------|--|
| Model | Description |
| MFP-2KDYE | MIFARE® Plus EV1 2K Printable Smart Card |
| MFP-2KDYE-COM | MIFARE® Plus EV1 2K Printable Smart Card. Composite, 40% Polyester / 60% PVC |
| MFP-2KSHL | MIFARE® Plus EV1 2K Shell Smart Card |
| MFP-2KKEY | MIFARE® Plus EV1 2K Keyfob |
| MT-2KDYE | Dual Tech Smart Card; MIFARE® Plus EV1 2K; 7-Byte UID; 125 kHz ioProx |

Multi-Technology Readers (Proximity and Smart Card)

Kantech multi-technology readers offer a flexible approach for supporting a range of proximity and smart card technologies on the same access control system. It is an ideal solution for transitioning to secure smart cards over time. These multi-frequency, multi-modulation, and multi-protocol readers are also suitable for a mixed environment where smart and proximity cards are in use at the same building. This is a future-proof solution with firmware updates that will ensure today's readers are ready for tomorrow's card technologies.

Features

- Reads more than 12 different types of proximity card/smart card formats
- Secure card data transmission
- Future-proof solution
- Built-in tamper switch provides secure installation



Compatible Card Formats:

- Kantech ioProx proximity
- HID KSF proximity
- HID 26-bit Wiegand
- HID 36-bit/37-bit Wiegand
- HID Corporate 1000
- Deister proximity
- MIFARE® serial number
- MIFARE® sectors
- DESFire EV1 serial number
- ISO 14443A, 14443B, and 15693 serial number
- iCLASS® serial number
- CASI-RUSCO® Prox Lite

| Multi-Technology Readers | |
|--------------------------|--|
| Model | Description |
| P345MTR | Multi-Technology reader with ioProx support, smart card and proximity, up to 10.2 cm (4 in) read range depending on technology of card, single-gang, black |



ioProx Card Readers

ioProx readers easily meet the demands of any application. They are a secure and easy-to-install solution to manage and control access all the while ensuring the safety of people and property. Attractive, compact, weatherised, and vandal-resistant, these readers are suitable for installation in a variety of environments. Compatible with dual-encoded 26-bit Wiegand and Kantech XSF proximity cards, these readers seamlessly integrate with access control systems including Kantech door controllers, KTES, and EntraPass security management software.

| ioProx Readers | |
|----------------|---|
| Model | Description |
| P225XSF | ioProx reader, XSF, mullion |
| P225W26 | ioProx reader, 26-bit Wiegand, mullion |
| P225KPXSF | ioProx reader, XSF, mullion |
| P225KPW26 | ioProx reader, 26-bit Wiegand, mullion |
| P325XSF | ioProx reader, XSF, single-gang |
| P325W26 | ioProx reader, 26-bit Wiegand, single-gang |
| P325KPXSF | ioProx reader, XSF, single-gang |
| P325KPW26 | ioProx reader, 26-bit Wiegand, single-gang |
| P600 | ioProx reader, long range, XSF/ 26-bit Wiegand selectable |



ioProx Credentials

The ioProx card uses proven, reliable technology that seamlessly integrates with ioProx readers. ioProx cards are available in a variety of shapes and materials. These cards are flexibly designed and can be attached to a key ring, badge clip, lanyard, or any flat surface. Kantech XSF cards can be encoded with more than four billion unique codes.

| ioProx Credentials | |
|--------------------|---|
| Model | Description |
| P10SHL | ioProx card, XSF/ 26-bit Wiegand, standard (Min. Qty. 50, Increment Qty. 50) |
| P20DYE | ioProx card, XSF/ 26-bit Wiegand, printable (Min. Qty. 50, Increment Qty. 50) |
| P30DMG | ioProx card, XSF/ 26-bit Wiegand, high-coercivity magnetic stripe printable (Min. Qty. 50, Increment Qty. 50) |
| P40KEY | ioProx keytag, XSF/ 26-bit Wiegand, (Min. Qty. 25, Increment Qty. 25) |
| P50TAG | ioProx self-adhesive round tag, XSF/ 26-bit Wiegand (Min. Qty. 50, Increment Qty. 50) |



Receivers and Wireless Transmitters

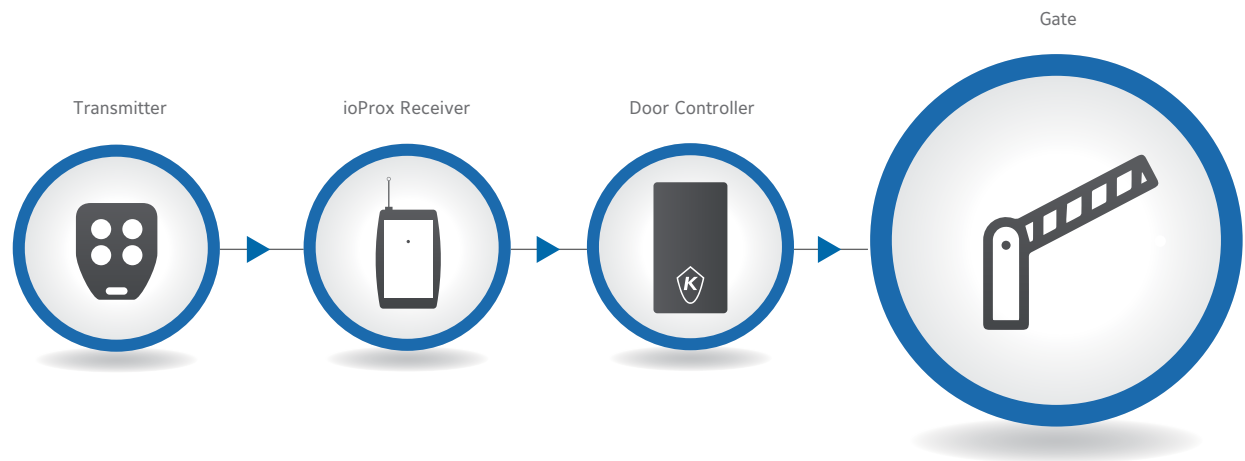
The ioProx Transmitter is ideal for long-range applications up to 45m (150 ft) – for example, opening parking gates. The transmitter is available with an optional integrated ioProx tag, which can be read by an ioProx card reader, making it an ideal solution to access both a parking facility and an office building without searching for multiple access cards. The ioProx transmitter uses radio frequency (RF) technology secured with encrypted coding. The ioProx Receiver is field selectable for either 26-bit Wiegand format or for Kantech XSF.

Features

- Four-channel receiver can be matched to a button on the transmitter
- Long read range – up to 45 m (150 ft)
- Encrypted code ensures high level of security
- Two- or four-button transmitter with optional integrated ioProx tag
- Indoor/outdoor use



| Receiver and Wireless Transmitter | |
|-----------------------------------|--|
| Model | Description |
| P700WLS | Four-channel receiver, standard whip antenna |
| P82WLS | Two-button transmitter |
| P82WLS-TAG | Two-button transmitter, integrated ioProx tag |
| P84WLS | Four-button transmitter |
| P84WLS-TAG | Four-button transmitter, integrated ioProx tag |



Biometric Readers

Kantech has partnered with industry leaders to provide a high-security personnel identification system using biometrics to establish an imposter-free identity database and to verify the identity of authorised persons. Access control biometrics includes everything that requires identity authentication by scanning a person's unique physical characteristics such as fingerprints and hand geometry. Biometrics offers a superior combination of strength, affordability, convenience and ease of use. It is used where high security is a necessity such as hospitals, police, the military as well as the financial industry.

Features

- User friendly, with touchscreen terminals for task visualisation and additional communication
- Flexibility of deployment scenarios, with a variety of models, turnstiles or server rack doors, mullions, aluminium doors with all kind of card technology, both indoors or outdoors
- Easy configuration and on-device enrolment using any device, PC, laptop, tablet, smartphone and the integrated web server



| Enrolment and Management software | |
|--|---|
| Model | Description |
| MOR-293670375 | Morpho Manager Pack Pro, The pack Pro allows the enrolment, verification & management of the biometric from a central computer, for standalone and client/server application |
| MA Sigma Indoor and Outdoor with Colour Touchscreen | |
| Model | Description |
| MOR-293638835 | WR Sigma Bio, Indoor and Outdoor, Multi-factor Bio/PIN (3K users, 10K, 50K and 100K w/ license, 1M logs storage capacity - Poe included |
| MOR-293638898 | WR Sigma Prox, Indoor and Outdoor, Multi-factor Bio/Card/PIN/BioPIN (3K users, 10K, 50K and 100K w/ license) , 1M logs storage capacity - HID Prox - Poe included |
| MOR-293638877 | WR Sigma Multi, Indoor and Outdoor, Multi-factor Bio/Card/PIN/BioPIN (3K users, 10K, 50K and 100K w/ license), 1M logs storage capacity - MIFARE®/DESFire® Smartcard Reader - Poe included |
| MOR-293638856 | WR Sigma iCLASS, Indoor and Outdoor, Multi-factor Bio/Card/PIN/BioPIN (3K users, 10K, 50K and 100K w/ license), 1M logs storage capacity - HID iCLASS SE- Poe included |
| MA Sigma Lite Indoor and Outdoor | |
| Model | Description |
| MOR-293678615 | MA Sigma Lite, Mono-factor Bio (500 users, Upgradable to 3K and 10K users with license), IP65 and IK 08, Embedded web server |
| MOR-293678628 | MA SIGMA Lite iCLASS, Multi-factor Bio/Card (500 users, Upgradable to 3K and 10K users with license), HID i-class SE Smartcard Reader, IP65 and IK 08, Embedded web server |
| MOR-293673665 | MA SIGMA Lite Prox , Multi-factor Bio/Card (500 users, Upgradable to 3K and 10K users with license), HID Prox Reader, IP65 and IK 08,, Embedded web server |
| MOR-293678636 | MA SIGMA Lite Multi , Multi-factor Bio/Card (500 users, Upgradable to 3K and 10K users with license), MIFARE®/MIFARE® Plus/DESFire® Smartcard Reader, IP65 and IK 08 , Embedded web server |
| MA Sigma Lite Indoor and Outdoor with Colour touchscreen | |
| Model | Description |
| MOR-293678657 | MA Sigma Lite +, Multi-factor Bio/PIN (500 users, Upgradable to 3K and 10K users with license), IP65 and IK 08, Embedded web server, 2.8" colour touchscreen |
| MOR-293673644 | MA SIGMA Lite + iCLASS, Multi-factor Bio/Card/PIN (500 users, Upgradable to 3K and 10K users with license), HID i-class SE Smartcard Reader, IP65 and IK 08, Embedded web server, 2.8" colour touchscreen |
| MOR-293678678 | MA SIGMA Lite + Prox , Multi-factor Bio/Card/PIN (500 users, Upgradable to 3K and 10K users with license), HID Prox Reader, IP65 and IK 08,, Embedded web server, 2.8" colour touchscreen |
| MOR-293678660 | MA SIGMA Lite + Multi , Multi-factor Bio/Card/PIN (500 users, Upgradable to 3K and 10K users with license), MIFARE®/MIFARE® Plus/DESFire® Smartcard Reader, IP65 and IK 08, Embedded web server 2.8" colour touchscreen |

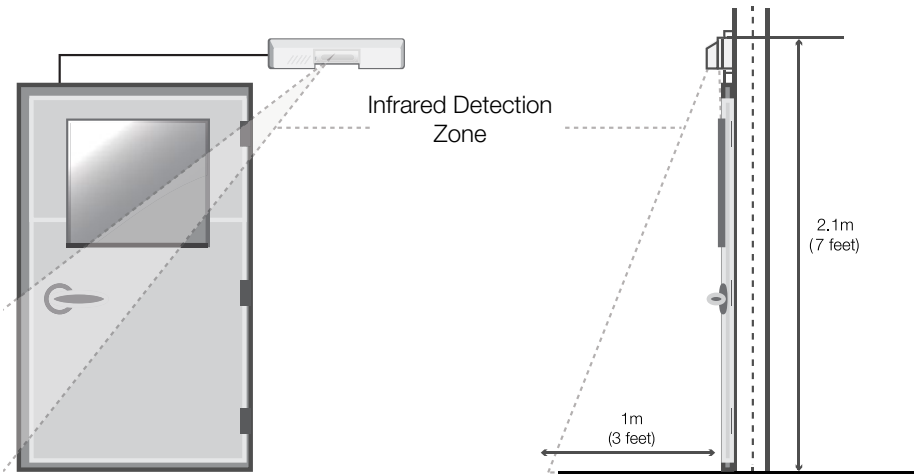
Request-to-Exit (REX) Detector

The T.Rex is a sophisticated and cost-effective REX device for all access control applications. It is also a useful alternative to installing an exit button. Outstanding innovations such as X-Y Targeting and Digital Signal Processing (DSP) implementation make the T.Rex one of the fastest and most reliable exit detectors on the market.



Features

- Zone of detection easily adjustable with pinpoint accuracy
- X-Y Targeting targets a specific area of detection
- Unlocks or shunts door automatically
- Hands-free, no buttons to push
- Integrated 90 dB local door alarm sounder independently controlled by access panel
- Infrared detection coupled with DSP prevents false "Door Forced Open" alarms



| T.Rex Exit Detector | |
|---------------------|---|
| Model | Description |
| T.REX-LT | T.Rex Request-to-Exit Detector with tamper and timer, white |
| T.REX-LT-NL | T.Rex Request-to-Exit Detector with tamper and timer, white (unbranded) |
| T.REX-LT2 | T.Rex Request-to-Exit Detector with tamper, timer and 2 relays, white |
| T.REX-LT2-NL | T.Rex Request-to-Exit Detector with tamper, timer and 2 relays, white (unbranded) |
| T.REX-XL | T.Rex Request-to-Exit Detector with tamper, piezoelectric buzzer and timer, white |
| T.REX-XL-NL | T.Rex Request-to-Exit Detector with tamper, piezoelectric buzzer and timer, white (unbranded) |
| T.REX-XLBLK | T.Rex Request-to-Exit Detector with tamper, piezoelectric buzzer and timer, black |
| T.REX-XL2 | T.Rex Request-to-Exit Detector with tamper, piezoelectric buzzer, timer and 2 relays, white |
| T.REX-XL2-NL | T.Rex Request-to-Exit Detector with tamper, piezoelectric buzzer, timer and 2 relays, white (unbranded) |
| T.REX-XL2BLK | T.Rex Request-to-Exit Detector with tamper, piezoelectric buzzer, timer and 2 relays, black |
| T.REX-PLATE | Single-gang box mounting back plate, white |

Exit Control Devices

Touch Free Stainless steel Exit Buttons are rugged, touchless switch built with advanced Infrared technology. Ideal for use in sterile environments such as hospitals, food processing plants and clean rooms, the touch free exit button recessed design and stainless steel construction make it easy to clean and sanitise. They are also ideal for buildings used by disabled or elderly people



Features

- Brushed Stainless Steel
- Infra-Red
- Adjustable timer
- Flush and surface mount
- Adjustable range
- Change-over-contacts
- Compatible with all access control systems

Exit Control Devices

| Model | Description |
|-----------------|---|
| DRB-IR | Touch Free" Infra Red Switch (85x85x30) Flushmount. Stainless steel flush mounted IR unit with hand symbol. |
| DRB-IR-S | Touch Free" Infra Red Switch (85x85x30) Surface mount . Stainless Steel surface mounted IR unit with hand symbol |
| Model | Description |
| MCP3A-G000SF-13 | Green Call Points for Access Control Systems. Single pole changeover contact in resettable operation mode. Indoor use. Ingress protection IP24D |
| MCP4A-G000SF-13 | Green Call Points for Access Control Systems. Double pole changeover contact in resettable operation mode. Indoor use. Ingress protection IP24D |
| KAC-PS200 | Hinged cover for the MCP3A-G000SF-13 & MCP4A-G000SF-13 Call Points |



Card Printing Solutions

Kantech's badging printers produce colourful, durable photo cards. Our printers are simple to use and virtually maintenance free. We have bundled our printers together with a High Definition portable Webcam, ribbon cartridge and cleaning supplies to form a complete badging kit and to keep your printer running like new. Our solutions easily adapt to evolving security and printing needs.

DTC1250e

The DTC1250e provides an ideal card printing solution for small businesses, schools, and local governments that need a simple, reliable, and affordable means of printing and encoding photo ID cards.



| DTC1250e | |
|-----------|--|
| Model | Description |
| FAR050020 | DTC1250e Single-Sided Base Model printer, USB and Ethernet, for card Sizes CR-80, CR-79 Adhesive Back |
| FAR050120 | DTC1250e Dual-Sided Base Model printer, USB and Ethernet, for card Sizes CR-80, CR-79 Adhesive Back |
| FAR45000 | YMCKO Cartridge w/Cleaning Roller: Full-colour ribbon with resin black and clear overlay panel – 250 images – compatible with Fargo DTC1000 and DTC1250e printers. |

DTC4500e

The DTC4500e card printer/encoder is the professional-grade printer that withstands the daily demands of high-volume printing. This printer delivers additional security features such as card encoding and is the ideal printer solution for medium-to-large sized organisations.



| DTC4500e | |
|-----------|---|
| Model | Description |
| FAR055000 | DTC4500e Single-Sided Base Model printer, USB and Ethernet, for card Sizes CR-80, CR-79 Adhesive Back |
| FAR055100 | DTC4500e Dual-Sided Base Model printer, USB and Ethernet for card Sizes CR-80, CR-79 Adhesive Back |
| FAR45210 | YMCKOK: Full-colour ribbon with two resin black panels and clear overlay panel – 500 images – compatible with Fargo DTC4500 and DTC4500e printers |
| FAR45201 | Premium Black monochrome ribbon cartridge – 3000 Images – compatible with Fargo DTC4500 and DTC4500e printers. |
| FAR45202 | Standard Black monochrome ribbon – 3000 Images – compatible with Fargo DTC4500 and DTC4500e printers |

Plug and Play ID Photo Capture

| Plug and Play ID Photo Capture | |
|--------------------------------|---|
| Model | Description |
| VID-24C708AF | 5MP USB 2.0 ID badging camera with Synchronised Flash and Autofocus |



Tyco Cloud

Tyco Cloud is a cloud-based physical security application suite for managing video surveillance, access control, business intelligence, and security integration services. With the efficiencies of software as a service (SaaS) and secure cloud connected hardware, Tyco Cloud allows customers to streamline security operations by moving costly and complex infrastructure off-premises.

The Tyco Cloud web portal and mobile app interfaces provide simplicity and convenience to securely manage users, devices, and system services from anywhere without any web plugins or client software to install and maintain.

With Tyco Cloud, authorised partners can confidently deliver cloud-based security solutions and managed services that help customers reduce risk and improve cash flow.

ioSmart Mobile Access Control

Easily manage a trusted ecosystem of cloud-connected security applications and devices all in one place.

Tyco Cloud empowers customers with secure self-service web and mobile apps to easily issue or revoke mobile access credentials and smart keys remotely for any type of personnel. This reduces the expense and hassle of managing physical cards or key tags. From employees and contractors to visitors, anyone can simply use their smartphone with the EntraPass go Pass mobile app to receive authorised access to any facility using ioSmart mobile access technology.

Kantech ioSmart multi-technology readers offer a range of cloud-managed mobile access control solutions that simplify security and reduce costs. With

ioSmart readers, you can continue to use legacy contactless card and key tag technologies with existing access control systems while benefiting from the increased security and convenience of supporting mobile smartphone-based credentials.

ioSmart can be installed to function as a traditional access control reader or as a local controller providing mobile access for doors needing low-cost keyless entry with the benefit of remote cloud management. Unlike most other multi-technology credential readers on the market, ioSmart is uniquely designed as a multi-purpose access control device with the installation flexibility to address a broad range of door security and lock control applications.



Features

- Support proximity, contactless smart card, and Bluetooth mobile credentials
- Remotely adjustable Bluetooth Low Energy (BLE) range for mobile access distance flexibility
- RS-485 and Wiegand interface for access control panel compatibility
- Installable as a panel-based reader, or panelless door controller
- End-to-end encryption and data security for added protection
- Cloud-managed mobile user credentials and smart keys

About Johnson Controls

Johnson Controls is a global leader creating a safe, comfortable and sustainable world. Our 105,000 employees create intelligent buildings, efficient energy solutions and integrated infrastructure that work seamlessly together to deliver on the promise of smart cities and communities in 150 countries. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat. We are committed to helping our customers win everywhere, every day and creating greater value for all of our stakeholders through our strategic focus on buildings.

For additional information, please visit www.kantech.com or follow Kantech on LinkedIn, Twitter and Facebook.

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