

KANTECH



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Kantech offers a full suite of access control products that are reliable, easy to install and easily scalable.

Access control – a key asset for your organisation

Organisations of all sizes – global and local – understand the need to invest in their people, operations and premises. Kantech's suite of access control products help complete the picture: making sure those valuable assets are safe and secure.

On the face of it, Kantech access control simply replaces traditional locks and keys with electronic readers. Lost keys, replacement locks, and the costs associated are a thing of the past. That is one benefit, but the advantages go deeper:

- control who enters your premises (or specific areas) and when
- track door access activity for a clear picture of logistics
- protect staff and operations against intruders, incidents and accidents (and potential litigation cases)
- control everything using simple software from anywhere in the world.

Our customers include single site single door start up organisations and multi site estates through to corporations spanning the globe – such is the simplicity, power and flexibility of Entrapass. Join the thousands upon thousands of organisations – large and small – turning our technology to their advantage.

Unlock a new management tool

The wider business advantages of access control will soon become clear. For instance, profitability can depend on efficiency and security. You can make sure the right people are in the right place at the right time (as well as keeping out those who should not be there). And control access to improve employee productivity safety, productivity and punctuality.

Another useful tool is the ability to quickly and conveniently adjust or delete privileges any time an employee's status changes.

By preventing people from entering places where they do not belong, access control protects against theft as well as liability and disruption to your operations. And access control can integrate with other security and operational systems to give you the ultimate, cohesive management tool.

View secure area activity via cameras directly integrated to the system or via simple IP cameras on the network.

Extensive floor plan capabilities allow detailed, effective and efficient monitoring from remote locations by operators that have never set foot in the locations they are monitoring. A single operator can monitor many remote locations providing substantial cost efficiencies across an organisation.

Fit for your business

Hospitals, colleges, retailers, commercial enterprises, transportation, government and more... Kantech's solutions are making workplaces safer places for industries around the globe.

Ready to use – out of the box

Kantech's sophisticated features are easy to set up and manage. Upload our software to control the system from a PC anywhere in the world. Update permissions, add or bar users, set designated areas... in a few clicks – whether you've a handful, hundreds, or hundreds of thousands of employees on one or multiple sites.

Integration with a suite of American Dynamics DVR's, Network Video Recorders (NVR's) and also numerous Industry leading Intrusion Systems allows Entrapass to provide solutions and deliver efficiencies to all organisations. There genuinely is a solution to fit all requirements...




EntraPass Security Software

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

- [EntraPass Comparison Chart](#)
- [EntraPass Special Edition](#)
- [EntraPass Corporate Edition](#)
- [EntraPass Global Edition](#)
- [KT-NCC](#)
Network Communication Controller
- [EntraPass Advanced Security Features](#)

EntraPass Comparison Chart

Choose the Access Control Software that is right for you

EntraPass Comparison Table			
	 EntraPass Special Edition	 EntraPass Corporate Edition	 EntraPass Global Edition
Operator Workstations	1	2 + 1 (up to 20+1)	4 + 1 (up to 128+1)
# of Gateways	1 on System	1 (up to 41)	1 (up to 128)
# of Cards	Unlimited Database*	Unlimited Database*	Unlimited Database*
Maximum # Readers/Keypads	128 (KT-100/KT-300), 256 (KT-400)	34,816 per Multi-Site Gateway (KT-300) 69,632 per Multi-Site Gateway (KT-400)	Per Global Gateway: 2,048 (KT-300), 4,096 (KT-400) Per Multi-Site Gateway: 34,816 (KT-300), 69,632 (KT-400)
Maximum # Controllers	64 per System	17,408 per Multi-Site Gateway	4,096 per Global Gateway 512 per KT-NCC, 69,932 per Multi-Site Gateway
Sites (loops) per Gateway	64 (Serial, RS-485, TCP/IP & Dial-up)	32 Local (Serial, RS-485, TCP/IP) & 512 Remote (Dial-up, Kantech IP Link or KT-400)	32 Local (Serial, RS-485, TCP/IP) 7 with KT-NCC (3 local & 4 TCP/IP) 512 Remote (Dial-up, Kantech IP Link or KT-400) per Multi-Site Gateway
EntraPass WebStation	No	Yes, 4 Concurrent Connections	Yes, 21 Concurrent Connections
Muster Reports	No	No	Yes
Roll Call Report	Yes	Yes	Yes
Video Integration	American Dynamics victor, HDVR, TVR Series and Intellex Digital Video Management Systems	American Dynamics VideoEdge, victor, HDVR, TVR Series and Intellex Digital Video Management Systems	American Dynamics VideoEdge, victor, HDVR, TVR Series and Intellex Digital Video Management Systems
Integrated Badging	Yes	Yes	Yes
Maximum # Remote Dial-up Sites/IP-link/KT-400	64	512 per Multi-Site Gateway	512 per Multi-Site Gateway
Maximum # Online Local Sites/UDS-1100)	32	32 per Multi-Site Gateway	32 per Global Gateway, 32 per Multi- Site Gateway, 2 RS-485, 1 RS-232, 4 UDS-10 per KT-NCC
Elevator Floors per Car	64	64	64
Access Levels per Site	250	250	-
Schedules of 4 Time Zones (each)	100 System Schedules	Unlimited System Schedules 100 Component Schedules	Unlimited System Schedules 100 Component Schedules
System Operator Passwords	Unlimited	Unlimited	Unlimited
Operator Security Levels	Unlimited, Pre-defined (3)	Unlimited, Pre-defined (3)	Unlimited, Pre-defined (3)
Concurrent Operator Languages per System	2	2	2
# of Report & Badging Printers	1 per System	1 per Workstation	1 per Workstation
Areas Management	No	No	Yes, 100 per Global Gateway & KT-NCC
Anti-Passback	Yes	Yes	Yes
Global Anti-Passback	No	No	Yes
Relay Activation * & # via keypad	Yes	Yes	Yes
Export reports (ASCII CSV, Sybase, Dbase IV, PDF, RTF, TXT, XLS)	Yes	Yes	Yes

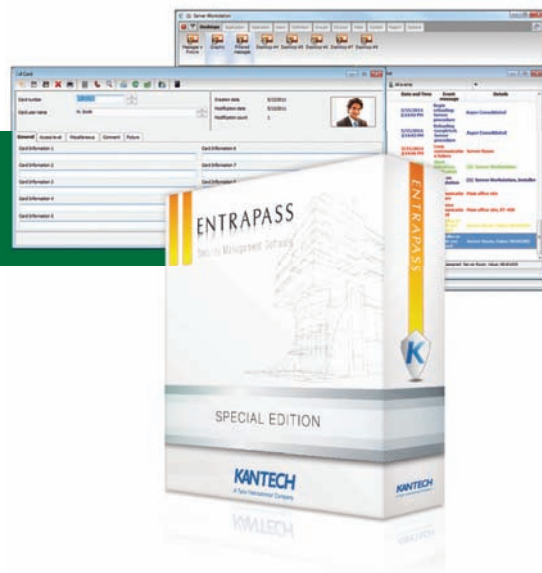
Operating System	Windows XP Pro in 32-bit version, Server 2003/2008 Standard/Enterprise, Vista Pro and Windows 7 Pro (all in 32 and 64-bit versions). All operating systems should have their latest Service Packs and updates.	Windows XP Pro in 32-bit version, Server 2003/2008 Standard/Enterprise, Vista Pro and Windows 7 Pro (all in 32 and 64-bit versions). All operating systems should have their latest Service Packs and updates.	Windows XP Pro in 32-bit version, Server 2003/2008 Standard/Enterprise, Vista Pro and Windows 7 Pro (all in 32 and 64-bit versions). All operating systems should have their latest Service Packs and updates.
Virtual Alarm Systems	No	No	Yes, 100 per Global Gateway & KT-NCC
Arm/Disarm External Alarms	Yes	Yes	Yes, using Corporate Gateway
DSC PowerSeries and MAXSYS Alarm Panel Integration	PC1616, PC1832, PC1864, PC4020	PC1616, PC1832, PC1864. PC4020	Using Multi-Site Gateway
Bentel Kyo 320 Alarm Panel Integration	Yes	Yes	Yes
Honeywell Galaxy integration	Option	Option	Option
Panasonic Video recorder integration	No	Option	Option
Uninterrupted Data Backup Schedule	Yes	Yes	Yes
# of Guard Tours	Not Applicable	Not Applicable	100, per Global Gateway & KT-NCC
SmartLink & SmartLink Task Commander	No	Yes	Yes
Video Archive via EntraPass Video Vault	No	Yes	Yes
Redundancy Server	No	Yes	Yes
Card Gateway	No	Yes	Yes
Multi Swipe function	Yes (KT-400 only)	Yes (KT-400 only)	Yes (KT-400 only)

* In stand-alone mode: 6,144 (KT-100); 8,000 (KT-300/128k); 56,000 (KT-300/512k)

Note: All EntraPass features shown on this table are available with v5.02 of EntraPass software. Consult with Kantech sales or Kantech Website for the complete compatibility chart.

EntraPass Special Edition

Single Workstation Security Management Software



Features That Make a Difference:

- Increased security with easy to set-up integration of access, video, intrusion and telephone entry systems
- Embedded high-performance Sybase SQL database engine
- Controls up to 128 readers with KT-100 and KT-300; 256 readers with KT-400
- Fast and user-friendly installation and operation
- Built-in email reporting capability

Single Workstation System

EntraPass Special Edition is a single workstation security software. It controls up to 128 card readers with KT-100/ KT-300 and up to 256 card readers with KT-400 door controllers. The software also includes a number of stand-alone utilities that allow operators to perform a variety of tasks such as: verifying the system database, changing the system language (English, Spanish, French, Portuguese, Dutch, German, Italian, Chinese and Turkish), migrating from older versions of EntraPass, viewing reports, etc.

Express Setup

Express Setup allows you to configure system components such as sites and controllers, as well as devices associated with these components such as doors and inputs. This utility reduces programming to a minimum, allowing the installer to test the installation and system components.

Site Architecture

EntraPass Special Edition can manage up to 64 sites consisting of KT-100, KT-200, KT-300 and KT-400 controllers (up to 64 controllers).

Video Integration

Real-time monitoring capability is a response to the growing importance of video in access control systems. Integration with American Dynamics VideoEdge, HDVR, TVR Series and Intellex Digital Video Management Systems through the powerful Intellex Application Programming Interface (API) provides real-time video monitoring as well as video playback. Video can be

linked to access events (such as “door forced open”) and recorded from one to sixteen cameras from different American Dynamics HDVR, TVR Series and Intellex units simultaneously. Presets, sequences, dome control and 1x1, 2x2, 3x3, and 4x4 views are available through the EntraPass software. All cameras can be called up directly from a floor plan simply by double-clicking on the camera or dome icon. Operators can configure viewing parameters for digital video applications through an EntraPass user interface.

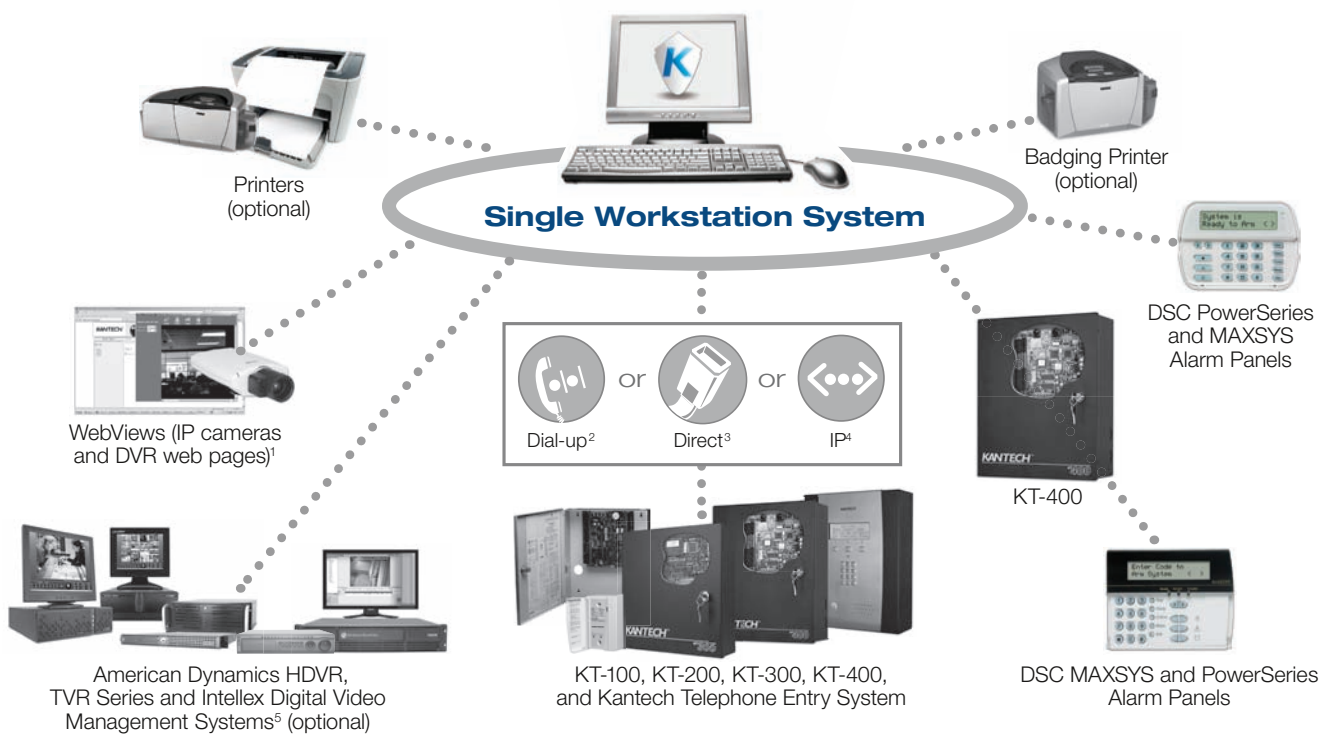
Alarm Panel Integration

Alarm panel integration can be accomplished with the use of the EntraPass software in one of two ways. The first way is to connect the software directly to the DSC PowerSeries or MAXSYS alarm panels. Alternatively, the KT-400 can be connected to the DSC PowerSeries or MAXSYS alarm panels. Either connection method allows the alarm panels to receive intrusion events, view the status of zones, and manage partitions and user codes. In addition the system can be armed/ disarmed (single or multiple partitions) via reader (KT-400 only) or manual operation.

Telephone Entry Integration

EntraPass Special Edition integrates with the Kantech Telephone Entry System (KTES) to provide an access control solution with telephone entry access capabilities which include: fast configuration and firmware updates, live transaction monitoring, and system backup. For more information, refer to the Kantech Telephone Entry System data sheet.

System Diagram



(1) A variety of IP cameras & DVR web pages have been tested successfully using WebViews. For a detailed list, please contact your sales representative
 (2) Dial-up: KT-300 only, using RS-232 serial modem at remote site (KT-100 needs to be connected to a KT-300 or KT-400)
 (3) Direct: KT-300 or KT-400, via RS-232 or RS-485 with USB-485 or VC-485 converter; KT-100 via RS-485 with USB-485 or VC-485 converter
 (4) Ethernet TCP/IP; using Kantech IP Link (KT-100 also requires VC-485 converter) or KT-400
 (5) Requires software v3.1 or higher for Intellex Ultra, DVMS, and IP; v2.6 or higher for Intellex LT

Related Products



DSC PowerSeries and MAXSYS Alarm Panels



Intellex DVRs



Discover Mini Domes

EntraPass Corporate Edition

Network and Web-Ready Security Management Software



Features That Make a Difference⁽¹⁾:

- Increased security with easy to set up integration of access, video, intrusion and telephone entry systems
- Embedded high-performance Sybase SQL database engine
- Supports up to 20 workstations and controls thousands of readers
- Fast and user-friendly installation and operation
- Available WebStation capability that allows system to be controlled remotely
- SmartLink Task Builder automates system tasks
- Compatible with EntraPass Go mobile app – interact with EntraPass with a few taps on your mobile device
- Double and triple swipe card at reader (with KT-400 controller firmware) to activate such features as: activate relay, arm alarm system and lock/ unlock doors

Network and Web-Ready

Kantech EntraPass Corporate Edition is a powerful network and web-ready security management software that adapts easily to meet the needs of growing businesses, allowing you to manage one building or access multiple remote sites from a network.

An operator can further create and refine views to filter additional components that are not necessary for day-to-day operation. The operator can create, save, and reuse temporary workspaces. This is useful whenever a recurring operation is needed on the system such as creating reports.

Site Architecture

A site is composed of controllers attached to the same communication port or connection. The system can manage up to 32 local sites (consisting of KT-100, KT-200, KT-300 or KT-400 door controllers) per Multi-Site Gateway. EntraPass Corporate Edition also allows users to add up to 512 secure IP connections or dial up sites per Multi-Site Gateway. EntraPass software is scalable – it expands as the security requirements of the business grows.

You can assign up to five cards to any employee to avoid having to create five different entries in EntraPass. Access levels can also be applied at this time to ensure cardholders have access only to authorized areas.

Manage Your System Remotely

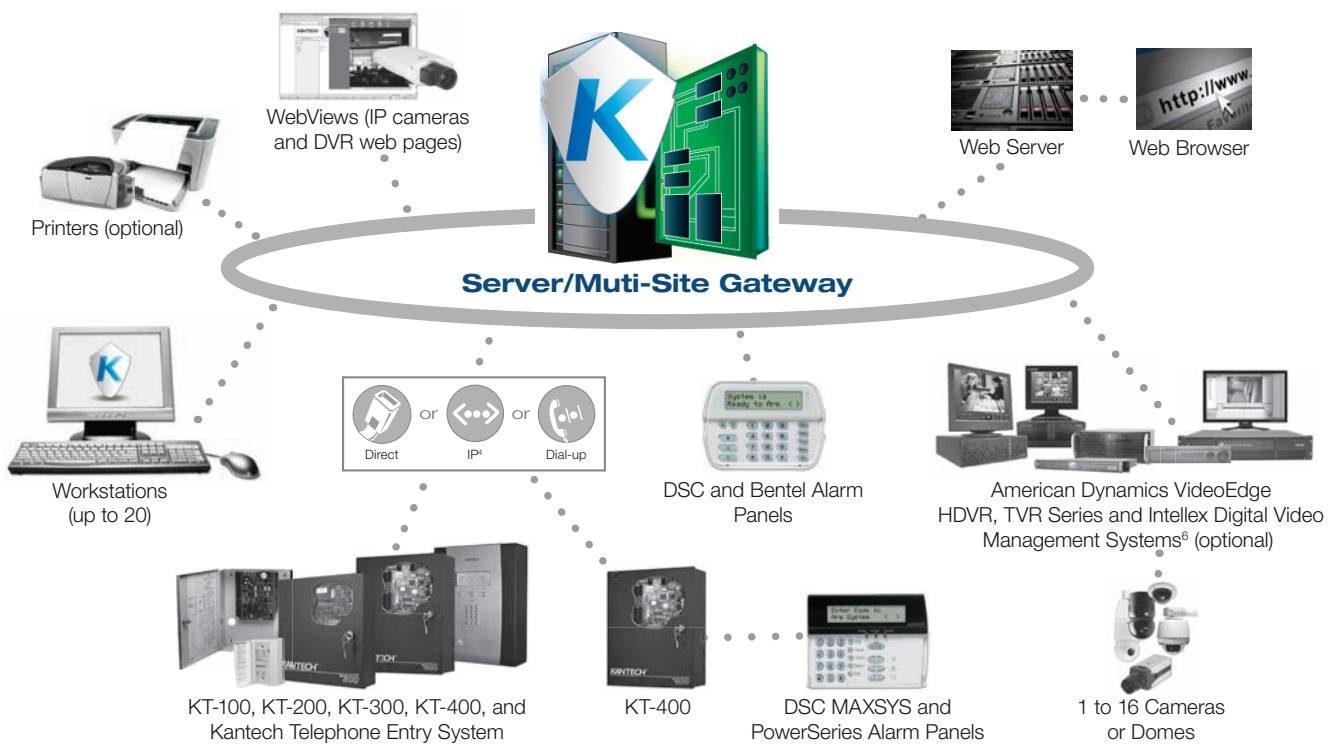
Easily manage your system over the Internet using the EntraPass WebStation. The web interface provides remote access to create, modify, and delete cardholders; and to export cardholder lists without the use of additional workstations. You can assign an access level to cardholders, manage access levels and schedules, manually operate doors, relays, and inputs, view last card transactions, receive reports securely by email, view live events in real-time or export in csv format and integrate and display live video from IP cameras, DVRs, etc. EntraPass is now compatible with the EntraPass Go mobile app. It puts you in control of your security and enables you to interact with the EntraPass security management software using only a few taps on your mobile device. The easy-to-use mobile app gives you anytime, anywhere real-time management of over 20 security tasks.

Simplified System Management

EntraPass workspaces provide customized views of the EntraPass system based on an operator's access privileges. Each workspace is created and defined in terms of devices – gateways, sites, doors, relays, etc. – and is configured to identify what areas of the EntraPass system the operator can access and view, such as desktop display, card fields, etc. Workspaces let you create different views of the EntraPass system that can be saved and applied to any operator.

(1) All of the features of EntraPass listed on this data sheet are available with software version 5.02 and higher

System Diagram



Related Products



DSC and Bentel Alarm Panels



AD DVRs and NVRs



EntraPass Go Mobile App

EntraPass Global Edition

Enterprise Level Security Management Software



Features That Make a Difference⁽¹⁾:

- Intelligent Alarm Routing allows assignment of system alarms to any workstation on the network
- Increased security with advanced integration of access, video, automation, intrusion and telephone entry systems
- Embedded high performance Sybase SQL database engine includes custom report generator
- Supports up to 128 workstations and controls hundreds of thousands of readers
- Global virtual alarm system, antipassback, guard tours and muster reporting
- Available WebStation capability that allows system to be controlled remotely
- SmartLink Task Commander automates system tasks
- Compatible with EntraPass Go mobile app – interact with EntraPass with a few taps on your mobile device
- Double and triple swipe card at reader (with KT-400 controller firmware) to activate such features as: activate relay, arm alarm system and lock/ unlock doors
- Auto Updater automatically updates clients/ workstations when server is updated

Enterprise Level

Kantech EntraPass Global Edition is a powerful, network-ready enterprise level security management software. It accommodates widely-dispersed applications with an unlimited number of users, controls thousands of card readers, and allows you to simultaneously access the system from up to 128 workstations connected to the network.

Site Architecture

A site/loop is composed of controllers attached to the same communication port or connection. The software is scalable and grows with the customer's needs. EntraPass Global Edition can manage up to 32 local sites or 512 Secure IP connections per Multi-Site Gateway. Each KT-NCC supports 3 local loops (32 controllers each) and 4 remote loops (8 controllers each). The KT-NCC provides advanced cross controller communication giving customers higher flexibility and functionality. Sites/loops are comprised of any combination of KT-100, KT-300 and KT-400 door controllers.

Global Security Features

EntraPass Global Edition is ideal for widely-dispersed applications that require a higher level of security. For example, global anti-passback helps you prevent a cardholder from passing back his or her card to a second person to gain entry into a secured area, regardless of whether those areas are in close

proximity or far apart. In addition, powerful alarm partitioning lets you divide an area protected by the EntraPass system into as many as 100 partitions per Multi-Site Gateway and individualize the alarm parameters for each.

SmartLink for Advanced System Integration and Automation

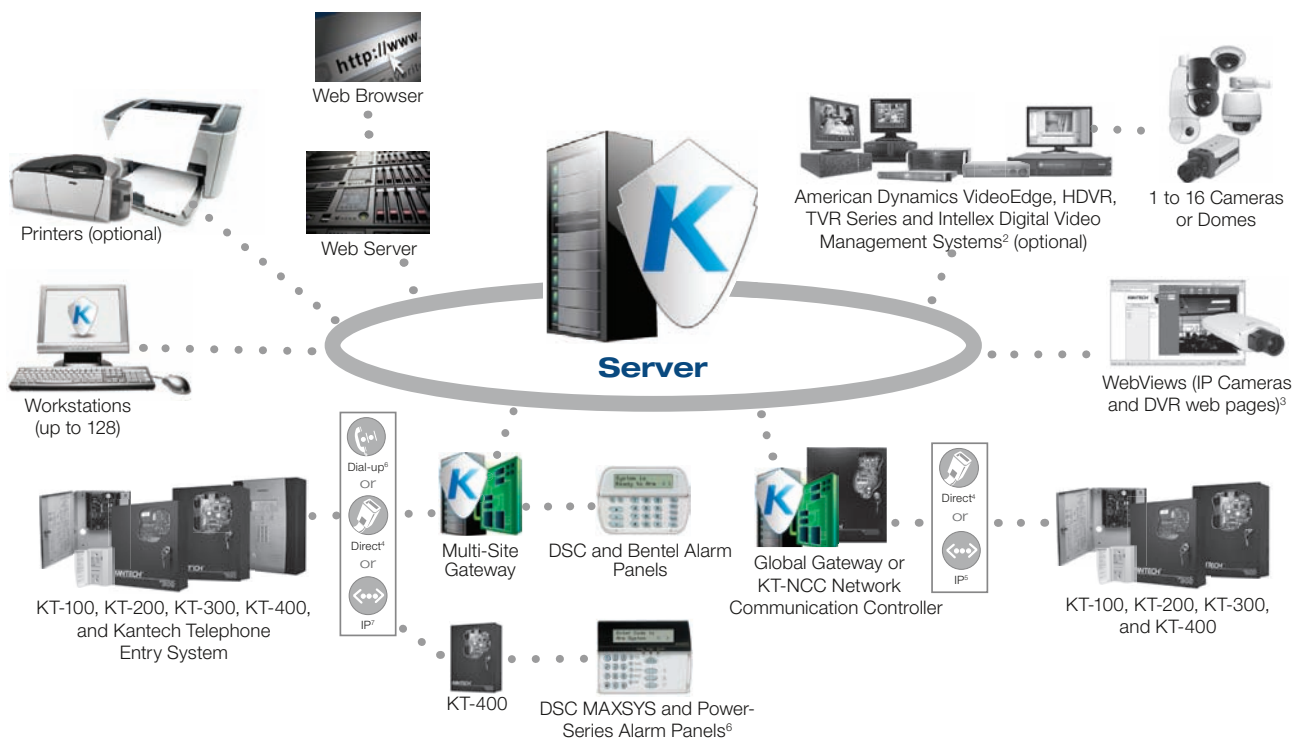
The SmartLink application enables operators to integrate EntraPass Global Edition with most intelligent devices such as video multiplexers, HVAC systems, LCD panels, video matrix switchers, etc. SmartLink uses an RS-232 or network connection to the external device.

Video Integration

Real-time monitoring capability is a response to the growing importance of video in access control systems. Integration with American Dynamics HDVR, VideoEdge NVR, TVR Series, Intellex Digital Video Management Systems and third party DVR/NVR provides real-time video monitoring as well as video playback. Video can be linked to access events (such as "door forced open") and recorded from one to sixteen cameras from compatible DVR/ NVR simultaneously. Presets, sequences, dome control and 1x1, 2x2, 3x3, and 4x4 views are available through the EntraPass software.

(1) All of the features of EntraPass listed on this data sheet are available with software version 5.02 and higher

System Diagram



(2) Many different video products have been tested successfully using WebViews – for an updated list please contact your sales representative

(3) Direct: using RS-232 or RS-485 with USB-485 or VC-485 converter, KT-100 using RS-485 with converter

(4) IP under Global Gateways using Lantronix Universal Device

(5) Dial-up: KT-300 only, using RS-232 serial modem at remote site (KT-100 needs to be connected to a KT-300 or KT-400)

(6) IP using Kantech IP Link or KT-400 Ethernet controller

Related Products



DSC PowerSeries and MAXSYS Alarm Panels



AD DVRs and NVRs



EntraPass Go Mobile App

KT-NCC

Network Communication Controller



Features That Make a Difference:

- Powerful panel architecture removes a layer of PCs to improve reliability and save money
- Onboard TCP/IP eliminates the need for an external network communication device
- Supports any combination of up to 128 controllers (KT-100, KT-300, or KT-400)
- Embedded redundancy ensures critical data is always protected
- Seven LED modes provide quick assessment of system status
- Flashable firmware enables fast, convenient updates
- Battery backup provides alternative for Universal Power Supply (UPS)
- Global functionality such as anti-passback, guard tours, and alarm systems management is easier than ever to implement

The Kantech KT-NCC is a powerful way to expand an EntraPass Global Edition System. Instead of relying on a PC for communication between the controllers and server, the dependable KT-NCC is in control. There are fewer PCs to maintain, operating systems to upgrade, and security emergencies to manage.

KT-NCC includes onboard TCP/IP which eliminates the costs associated with buying and maintaining a third party communication device to link to the network.

The KT-NCC manages communication between the EntraPass software and the door controllers. It also administers global features such as anti-passback, alarm systems, guard tours, and secondary access levels. All events from the controllers are stored in the KT-NCC for additional security in the event of a communication failure between the controllers and the server. The KT-NCC supports any combination of up to 128 controllers (KT-100, KT-300 or KT-400).

System Diagram



Related Products



EntraPass Advanced Security Features

EntraPass supports a wide range of advanced solutions that include access control, video surveillance, intrusion detection, and security management (guard tours, remote video management, video/alarm verification). With these advanced features, the Kantech EntraPass solution readily provides tremendous performance and value to monitoring stations and their customers.

Alarm Panel Integration



Alarm panel integration can be accomplished with the use of the EntraPass software in one of two ways. The first way is to connect the software directly to the DSC PowerSeries (PC1616, PC1832, PC1864) or MAXSYS (PC4020) alarm panels. Alternatively, the

KT-400 can be connected to the DSC PowerSeries or MAXSYS alarm panels. The Bentel Kyo 320 intrusion panel is now a part of the Kantech Entrapass integration and can be connected via IP module communicating to the Multisite gateway. The Honeywell Galaxy intrusion panel can be connected after an activated option License to the Corporate gateway's via an Ethernet IP connection. Either connection method allows the alarm panels to receive intrusion events, view the status of zones, and manage partitions and user codes. In addition the system can be armed/ disarmed (single or multiple partitions) via reader (KT-400 only) or manual operation.

Card Gateway

The Card Gateway is an external interface where the customer will be able to make additions, modifications and deletions to the card database through Oracle or MS-SQL tables. The Card Gateway also creates a real-time, mirror copy of the EntraPass card databases (card, card group, card type and badge tables) in the Oracle or MS-SQL database. This application may be installed and run on the server's computer.

Video Integration

Real-time monitoring capability is a response to the growing importance of video in access control systems. Integration with American Dynamics HDVR, VideoEdge NVR, TVR Series, Intellex Digital Video Management Systems and third party DVR/NVR2 provides real-time video monitoring as well as video playback. Video can be linked to access events (such as "door forced open") and recorded from one to sixteen cameras from compatible DVR/NVR simultaneously. Presets, sequences, dome control and 1x1, 2x2, 3x3, and 4x4 views are available through the EntraPass software. All cameras can be called up directly from a floor plan simply by double-clicking on the camera or dome icon. Operators can configure viewing parameters for digital video applications through an EntraPass user interface. In addition, the EntraPass InfiniView option allows for addition of 128 video servers.

Redundancy Server

An optional redundancy server with a mirror database monitors all data activity on your primary EntraPass server and creates a real-time copy of the system database. In the event of primary server failure, the mirror database automatically launches the redundancy server which supports all the features and functionality of the primary server. Once the primary server returns online, all archives are merged and/ or the entire database is merged/ copied from the redundancy server, without interrupting system operations.

SmartLink

The SmartLink application enables operators to integrate EntraPass Global Edition with most intelligent devices such as video multiplexers, HVAC systems, LCD panels, video matrix switchers, etc. SmartLink uses an RS-232 or network connection to the external device. With the SmartLink Task Builder, EntraPass reaches new levels in task automation. A series of tasks, similar to macros, can be created and triggered on any event and component in the system. When an event occurs, the tasks are then executed by the system. You can manually activate these specific tasks directly from the interactive floor plans in EntraPass. Advanced system integration can be accomplished by using the bi-directional SmartLink library to communicate with software applications such as time and attendance systems, badging systems, human resource management systems, student registration systems, etc. This allows complete and real-time data exchanges between systems, eliminating redundant data entry.

Manage Your System Remotely

Easily manage your system over the Internet using the EntraPass WebStation. The web interface provides remote access to create, modify, and delete cardholders without installing and maintaining additional workstations. You can assign primary and secondary access levels to cardholders, manage your access levels and schedules, manually operate doors, relays, and inputs, view last card transactions, receive reports securely by email, and integrate and display live video from IP cameras, DVRs, etc. using WebViews. EntraPass is now compatible with the EntraPass Go mobile app. It puts you in control of your security and enables you to interact with the EntraPass security management software using only a few taps on your mobile device. The easy-to-use mobile app gives you anytime, anywhere real-time management of over 20 security tasks. Manage/create cards, lock/unlock doors, request reports and much more. Download EntraPass Go from the App Store or Google Play to get security on the go!

* Requires v3.1 or higher for IntellexUltra, DWMS, IP and v2.6 or higher for Intellex LT, EDVR v1.53 or higher. Visit www.americandynamics.net for more detailed information about Intellex.

Intevo Integrated Security Platform

Intevo is an easy to deploy integrated security platform, designed to be up and running in minimal time with out-of-the-box ease. The system is preloaded with American Dynamics' IP video recorder and Kantech's EntraPass Corporate Edition security management software, which includes support for many Intrusion systems integration, giving users plug-and-play capability. With the included first boot wizard, Intevo is simple to configure and a customised dashboard provides seamless navigation among software applications for easy ongoing management. Intevo provides an ideal platform for small to medium businesses as well as the ability to grow the system to meet organisational needs over time. It is the evolution of integration.

INTEVO+



Features That Make a Difference:

- Simple to configure, easy to deploy
- Supports EntraPass Corporate Edition features such as:
 - EntraPass Go mobile application
 - EntraPass Web client
 - EntraPass Workstation client
 - DSC PowerSeries alarm panel Integration
 - Bentel KYO alarm panel Integration
 - Alarm panel Integration
- Compatible with all Kantech controllers
- Connect up to 32 IP cameras
- Separate Solid State Drive (SSD) for the operating system and applications
- 3TB Drive for Video Storage
- Optimised for use with American Dynamics Illustra Series IP Cameras
- Supports H.264, MPEG-4, MJPEG and a wide variety of IP cameras including Megapixel
- Seamlessly integrate American Dynamics VideoEdge NVR, Intellex, HDVR and ADTVR into one solution
- Remote management
- Security reports
- Active Maps
- Email Notification
- Multi-Language Support

Integration Evolution

Intevo is an easy to deploy integrated security platform that is quick and easy to install. It's simple to configure, 6 step wizard, built on Windows 7 Embedded means you can be up and running within minutes and includes a customised dashboard for easy system management. Intevo is preloaded with Kantech's EntraPass Corporate Edition security management software, American Dynamics IP video software and an IP camera license included. This package delivers market-leading functionality and proven reliability.

The intuitive Kantech Express set-up Wizard also allows full testing of the system whilst at the same time the client can browse an array of end user functions using either EntraPass Web client or the new EntraPass Go mobile app on their phone or tablet.

Integrated Security Platform

Intevo provides an ideal platform for small to medium businesses as well as the ability to grow the system to meet organisational needs over time. Its ability to integrate with intrusion panels, monitor access control and link these events with video information allows for quick, efficient incident management of the cause of an alarm.

Video gives the “who” to go along with the “What”, “When” and “Where”

Events such as “door forced open” can be attached to the associated video for quick playback. These images and associated audio from up to 32 cameras are recorded and stored on this single appliance. Camera's can be called up directly from a floor plan simply by double-clicking on the camera or dome icon and Intevo IP Video supports a long list of IP cameras from many brands.

Intevo is also compatible with advanced EntraPass features such as Video Vault and Redundant Server. Integration with American Dynamics HDVR, VideoEdge NVR, TVR Series and Intellex Digital Video Management Systems further enhances the video capabilities of the system and the clear IP video user interface makes it easy to find your way around so you will be confident during set-up, and when training your staff.

Monitor, Arm, Disarm, programming, viewing and one card does it all.

The integration of Intevo with a host of alarm panels sets it apart. With the right permission, a card holder can arm or disarm the connected alarm system simply by presenting their card to a reader. The level of security can be further enhanced with cards being paired with



partitioned areas within a building. For ease of use a virtual alarm keypad makes it easy for you to configure the alarm panel in the same way as if it were an actual physical keypad. All this can be done from a remote or local desktop. Virtual keypad is easy to install and does not require any special alarm setting.

Information when it's needed how it's needed.

With a built-in report generator, reports can be either manually or automatically generated and can be sent via e-mail to and administrator to view on their desktop or on a mobile device. Even basic work time registration reports can be sent on a scheduled timeframe.

Simplified access, from anywhere.

Webclient and Mobile Application access to Invevo are pre-configured and ready to use. EntraPass Web and Entrapass Go syncs to the EntraPass software and enable users to monitor and control the security system in real-time.

It is an ideal solution for situations where a security administrator needs to manage the access control system after business hours, during the weekend or traveling on a business trip.

When logging into the EntraPass WebStation, the operator or end user depending upon permission levels can have access to manual operations such as elevator doors, doors, relays or inputs in order to perform tasks manually.

System Architecture

- Full-featured security system in a single appliance
- Windows 7 Embedded
- EntraPass Corporate Edition
- EntraPass Webstation
- EntraPass Mobile Go are pre-configured
- AD IP Video management (HDVR)
- Up to 32 IP Cameras (1 free IP Camera license incl.)

Technical Specifications:

- Intel i3 Processor
- 32 Gb SSD for applications
- 3TB HDD for archives
- 100 Gb for Kantech
- 2.9 TB for video storage
- 2 x Ethernet ports
- 128 Mbps throughput, 60Mbps inbound
- 6 x USB ports
- 1 x RS-232 serial port
- HDMI, DVI and VGA Monitor outputs
- Desktop, Wall mount and Rack mount



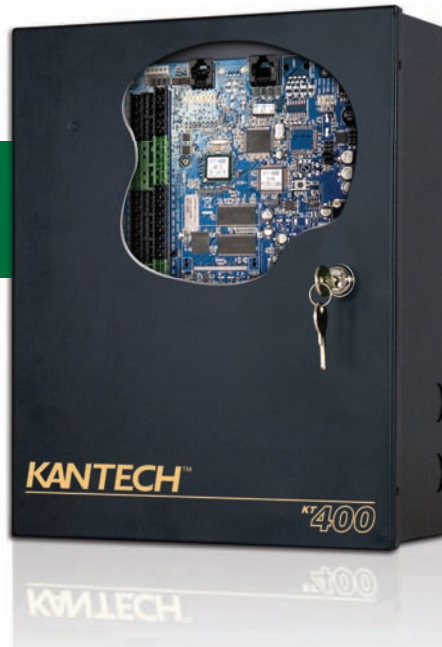
Door Controllers

In busy environments like casinos, Kantech door controllers help to prevent the public from wandering into restricted areas where they don't belong. You can make security and building operations even more effective by integrating our door controllers with alarm panels, HVAC systems, and CCTV systems, such as those from American Dynamics.

- **KT-400**
Powerful, Ethernet-Ready Four-Door
- **KT-300**
Two-Door Door Controller
- **KT-100**
Mini Door Controller
- **ioPass Stand-Alone**
Door Controller/Reader
- **KT-300 & KT-400**
Demo Kit

KT-400

Powerful, Ethernet-Ready Four-Door Controller



Features That Make a Difference:

- Supports four readers
- Secure 128-bit AES encryption solution
- 100,000 cards per controller and 20,000 stored events in stand-alone mode
- Expansion flexibility – connect up to 256 inputs and 256 outputs
- Full integration with DSC PowerSeries and MAXSYS alarm panels
- LEDs provide important controller status and diagnostic information

Ethernet-Ready Encrypted 4-Door Controller

The KT-400 is a 4-door Ethernet-ready controller providing a secure (128-bit AES encryption) solution for any enterprise looking for the highest available security. It easily integrates into existing EntraPass systems and with other Kantech controllers (KT-100, KT-200 and KT-300). The KT-400 can also provide the foundation – with the EntraPass system – for a brand new highly scalable security installation. An onboard Ethernet port ensures quick network connectivity and eliminates the need for an external Ethernet device.

Built-In Expansion

The KT-400 allows connection to expansion modules in order to add inputs or to add outputs such as relays and drain outputs. Combining input and output expansion modules provides the flexibility to connect up to 256 inputs and 256 outputs.

Status Indicators

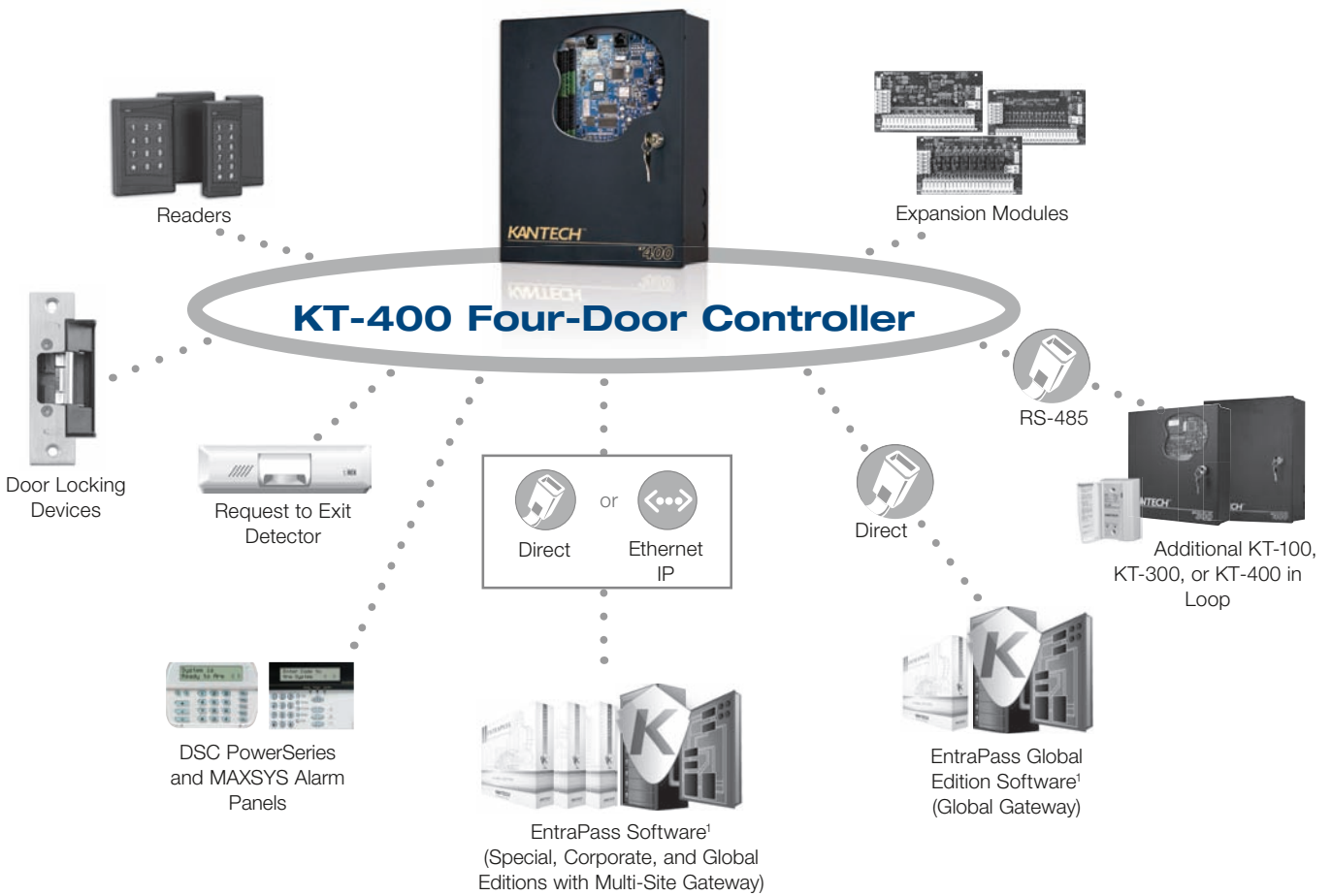
LEDs provide important controller status and diagnostic information. The KT-400 has multiple LED status indicators for: troubleshooting, network activity, power status and outputs activity.

Easy Network Connectivity

The auto-sensing 10/100Base-T onboard Ethernet port automatically selects compatible Ethernet speeds to provide faster network connectivity. It eliminates the need to purchase an external Ethernet device, saving time and money. The KT-400 uses secure 128-bit AES encryption to communicate with the Gateway.

* KT-400 is compatible with EntraPass v4.01 and higher

System Diagram



* KT-400 is compatible with EntraPass v4.01 and higher

Related Products



KT-300

Two-Door Door Controller



Features That Make a Difference:

- Controls two readers and easily links to a network
- Update firmware directly from system workstation
- Fast operation, up to 115,200 baud
- Ready to go, no DIP switches or jumpers to set
- Interfaces with an external alarm system
- Choice of 128K or 512K memory capacities
- LEDs provide important controller status and diagnostic information

Scalable Two-Reader Door Controller

The KT-300 is a two-reader networkable door controller. One controller supports up to two readers, installed on two separate doors or on a single door controlling both entry and exit. Each controller is linked to the others in the system using an RS-485 communication bus providing control for up to a million doors depending on the EntraPass Edition.

Easy Firmware Updates

The KT-300 features flash memory for easy firmware updates. The controller's firmware can be updated from any EntraPass workstation in just a few minutes. Flash memory saves time by allowing system updates from a PC without having to update each controller individually.

Speed Selection and Trouble/Reporting

KT-300 detects the system's communication speed (set by EntraPass) and assigns the controller's address, eliminating the need to set up DIP switches or jumpers. KT-300 also provides trouble reporting, constantly supervising locking devices for short and

open circuits to detect lock failures. It also monitors battery condition to alert the system of low battery/no battery status. All power outputs are individually protected against short circuits and surges by a self-resetting PTC.

Expandable

The KT-300 can be expanded via Combus expansion modules allowing for relay, input and output modules, and an LCD time and date display.

External Alarm Interface

The KT-300 can interface with an external intrusion alarm system. An authorized individual can arm or disarm the alarm system simply by presenting their card to a reader.

Network Connectivity

The KT-IP (IP controller module) provides affordable and secure LAN/WAN network connectivity for the KT-300 door controller. In this setup, the KT-300 is first connected to a VC-485 (RS-232/ RS-485 interface). Then the VC-485 is connected to the KT-IP (and both devices are powered by the KT-300). The KT-IP relays information between the KT-300 and the EntraPass Multi-Site Gateway.

* Direct via RS-232 or RS-485 with USB-485 or VC-485 converters

** Dial-up: Using RS-232 serial modem at remote site

† Ethernet TCP/IP: Using Lantronix Universal Device Server, or using Kantech IP Link with EntraPass Special Edition/Corporate Edition Global Edition.
A Corporate Gateway is required with EntraPass Global Edition

Related Products



USB-485



Kantech IP Link
TCP/IP Interface



EntraPass Security
Software

KT-100

Mini Door Controller



Features That Make a Difference:

- Easy firmware updates
- Fast communication speed up to 115,200 baud
- Trouble supervision
- Fast and easy installation
- Interfaces with an external alarm system
- DC Powered Controller

Compact and Versatile Single Door Controller

The KT-100 Mini Door Controller is compact and versatile with a space-saving design that incorporates all the components and equipment found in much larger controllers. Choose it for installations near a door, within a ceiling, involving turnstiles and parking gates. The KT-100 contains all the intelligence and necessary inputs/outputs to manage two readers on one door. Or link the KT-100 with other controllers (via RS-485 connection) to control thousands of readers.

Easy Firmware Updates

KT-100 features flash memory for easy firmware updates. The controller's firmware can be updated from any EntraPass workstation in just a few minutes. Flash memory saves time by allowing system updates from a PC without having to update each controller individually.

Trouble Supervision

The KT-100 constantly supervises the power supply, short-circuit and surge conditions and reports status to the EntraPass software. The power output is protected against short-circuits and surges by a self-resetting PTC. The equipment is also monitored for failure or tampering.

Fast and Easy Installation

Mounts on the secure side of a door, reducing the length of cable required for installations. Has no DIP switches or jumpers to set. Includes connections for 2 card readers (entry/exit), lock device, door contact and request to exit. Mounting is easy: it can be placed on a single gang box (flush mount) or on a surface back box specially designed for it.

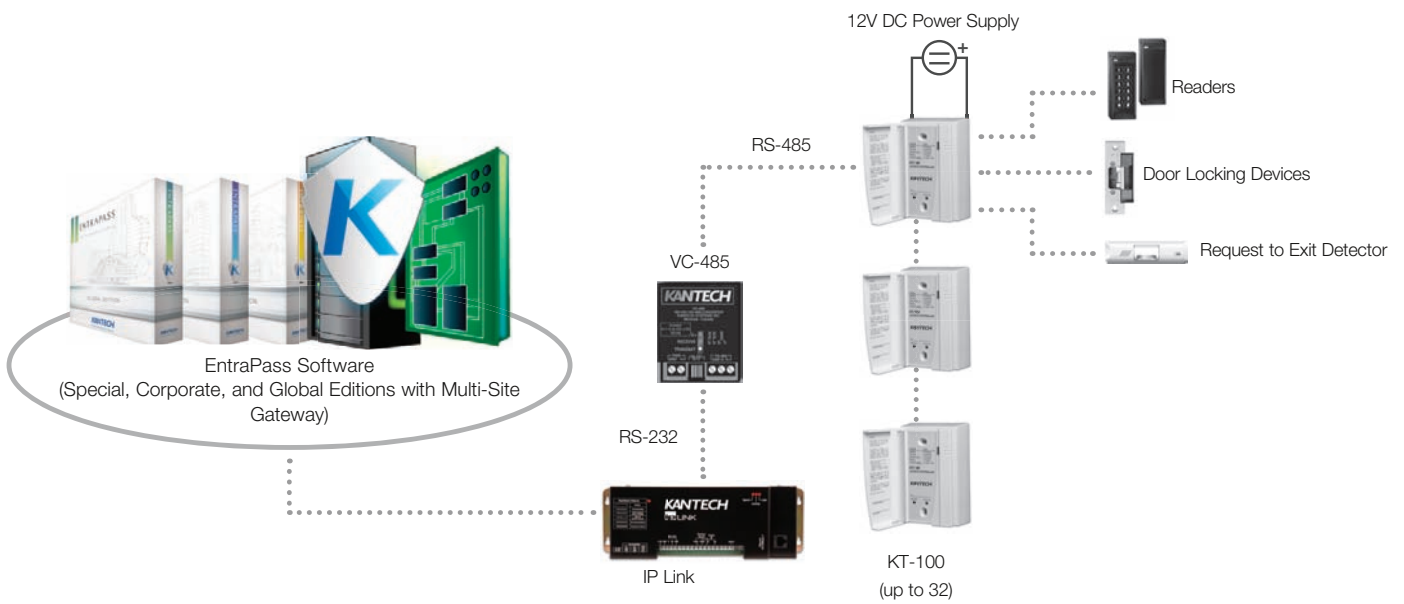
External Alarm Interface

The KT-100 can interface with an external intrusion alarm system. An authorized individual can arm or disarm the alarm system simply by presenting his/her card to a reader.

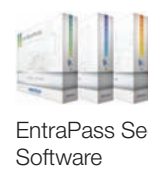
Network Connectivity

The KT-IP (IP controller module) provides affordable WAN/LAN network connectivity for the KT-100 mini door controller. In this setup, the KT-100 is first connected to a VC-485 (RS-232/RS-485 interface). Then the VC-485 is connected to the KT-IP. If there is a loss of communication with one of the controllers, the VC-485 will preserve communication with the other controllers. The KT-IP relays information between the KT-100 and the EntraPass Multi-Site Gateway.

System Diagram



Related Products



ioPass Stand-Alone

Door Controller/Reader



Features That Make a Difference:

- Up to 5000 card users
- Use integrated reader, keypad, or both
- Integrated or external ioProx proximity reader
- Read range of up to 16.5 cm (6.5 in)
- Six languages, programmable from keypad
- Higher security provided by concealed door relay module
- Auxiliary relay to arm/disarm an external alarm system
- Audit trail on the unit
- Duress function available
- Invalid password lockout

ioPass, a fully programmable stand-alone access control system, permits entry using proximity technology, keypad with PIN, or both, for up to 5000 people. Compact and surface mountable, ioPass is programmed directly from the keypad with visual confirmation of each operation on the 16-character, 2-line LCD.

ioPass also features invalid password lockout. The system can be programmed to activate an alarm relay and/or to automatically deactivate the card after five incorrect entries.

Related Products



ioProx readers

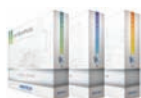
KT-300 & KT-400

Demo Kit



EntraPass demo software is the ideal way to demonstrate the exceptional features of EntraPass. Sample databases can also be downloaded to be used with the EntraPass demo software. The EntraPass demo software and databases can be used with both the KT-300 demo kit and the KT-400 demo kit to provide a complete access control experience. The demo kits can also be used to demonstrate the read range for ioProx readers as well as the ioProx card programming.

Related Products



EntraPass Security Software

Kantech Telephone Entry System

Kantech simplifies telephone-entry and access control for apartment and commercial office tenants.

- Kantech Telephone Entry System (KTES)

Kantech Telephone Entry System (KTES)



Features That Make a Difference:

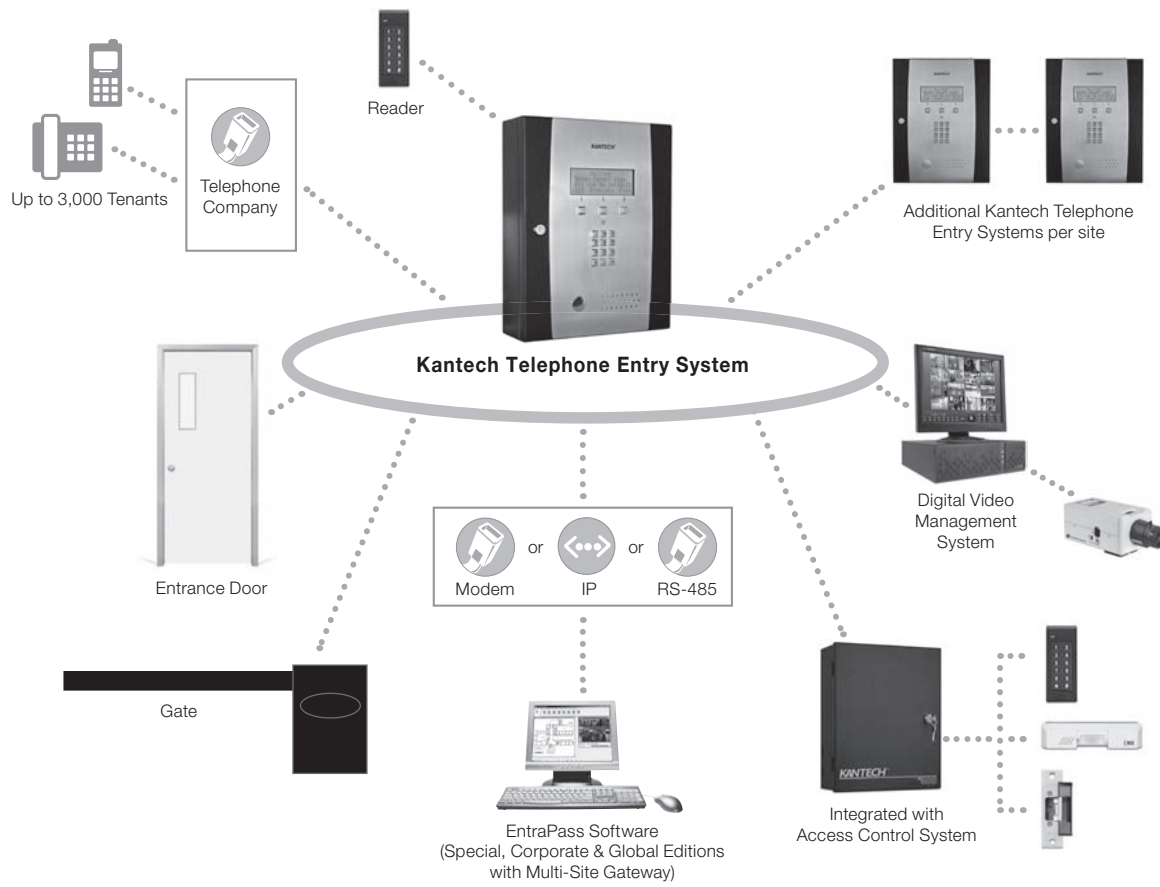
- Stand-alone or integrates with an access control system
- Convenient remote/secure IP communication, programming and management with EntraPass software
- Electronic directory with a capacity of up to 3,000 tenants
- Reader support for access control features
- Dynamic visitor language selection
- Large 4-line, 20-character LCD with high contrast and backlighting
- Easily programmable directly from the keypad
- Alternate telephone number available to reach tenant
- Vandal- and weather-resistant stainless steel housing
- Versatile alarm and trouble reporting capabilities
- One telephone line supports up to five units

The Kantech Telephone Entry System (KTES) is an ideal entry system for small, medium, and large sites with an existing access control system, or applications that require telephone entry access only. The system provides visitor access control to apartment buildings, gated communities, condominiums, office buildings, and industrial sites.

A tenant communicates directly with a visitor using the KTES and can grant or deny admittance directly from a telephone land line or cellular phone with the touch

of a button. The KTES is simple and easy to install, can co-exist with Kantech controllers and can be remotely managed using EntraPass software. A simplified version of the EntraPass software is included with the KTES for fast configuration & firmware upgrades, live transaction monitoring & system backup.

System Diagram



Related Products



loprox readers



EntraPass Security Software

Readers, Keypads & Cards

Our access control solutions are complemented by a complete line of proximity, Smart Card, bar code magnetic stripe and biometric readers/cards.

- [Choosing Card & Reader Technology](#)
- [ioProx Proximity Readers & Cards](#)
- [Multi-Technology](#)

Choosing Card & Reader Technology

Kantech provides a full selection of readers and cards representing the most advanced and popular technologies available today. Proximity, biometrics, magnetic stripe, bar code, Wiegand, and multiple technology offer a host of security options with cost, durability, reliability, versatility, and the level of security varying from one to the next. To find out which type of reader is right for you, learn more about the features and capabilities of each in the section below and on the next page.



PROXIMITY

Proximity readers continuously transmit a low-level fixed radio frequency (RF) signal that provides energy to the card. When the card is held at a certain distance from the reader, the RF signal is absorbed by a small coil inside the card that powers up the card's microchip which contains a unique identification code. Once powered, the card transmits the code to the reader. The whole process is completed in microseconds. The big advantage of proximity over other technologies lies in its simplicity. There are no moving parts, no mechanical wear, no slots, and no read heads to maintain. The reader can be concealed inside walls or special enclosures and poses even fewer problems when surface-mounted because it has no opening with which to jam or tamper.

The proximity card is extremely secure and practically impossible to duplicate. Proximity cards are less prone to physical damage or loss, saving you money in reduced card replacement costs. Read

ranges depend primarily on the reader. The larger the read range, the larger the reader's concealed antenna and, hence, the size of the reader. A reader's read range is always specified using standard cards. If the card's coil is smaller, as in thin photo ID cards, keytag or keytag type cards, it may reduce the read range by up to 40%. There is a great variety of proximity readers designed for different environments including vandal resistant mullion mounts, smaller decor styles, and integrated keypad/reader units.



MULTI-TECHNOLOGY

Multi-technology cards are most often used on sites where a system, such as one that measures time and attendance, is already in place and uses magnetic stripe or bar code cards. If the customer wants higher security proximity cards for the access control system, the existing cards can be replaced by dual-technology cards which combine proximity and a second technology, such as bar code or magnetic stripe or even smart card. This is a more convenient alternative than asking employees to carry two cards. It is also less expensive and less time consuming than switching out all of the cards.



MAGNETIC STRIPE

The typical magnetic stripe card accommodates three tracks or areas for storing data. Banking and credit card operations rely on this technology, most frequently using Track 2 (sometimes referred to as ABA-2 or ISO-2) to store their data. The card must be swiped or inserted into the reader so that the read head can pick up the card's encoded data. This contact operation creates wear on both the card and the read head. With new high-density magnetic stripes, however, loss of data due to reasons other than physical damage is now uncommon. This technology provides a medium level of security because it is possible, with the right equipment and proper knowledge, to duplicate cards. Yet, lower cost for both readers and cards makes it an attractive choice for many users.



BAR CODE

Bar code technology is very common in non-security applications but it is seldom the technology of choice for security. The card is swiped so that the cell inside the reader can read the bar code through a lens. Visible bar code technology has obvious security drawbacks. For example, cards can be duplicated with a photocopier or by faxing. Although it is possible to mask the bar code with a filter that makes duplication more difficult, most buyers prefer more secure technologies. The cards have an average life of 18 to 30 months. The reader lens requires cleaning once a year on average, or more if installed in dusty environments such as parking lots.



WIEGAND

This technology was originally created to provide a permanently encoded card when magnetic stripe cards were too sensitive to magnetic fields. The Wiegand card contains a stream of “Wiegand effect” wire inside. As the card is swiped through an electromagnetic field inside the reader, the bits of wire create a data stream that is used to identify the user. Wiegand was the most common technology in high security applications before the advent of lower cost proximity technology.



BIOMETRICS

Biometric technologies include fingerprint, hand geometry, voice recognition, retinal scan, and any other method of identification based on unique personal characteristics. Biometric solutions consist of a reader that compares a user-selected template against the measured features of the actual person. Templates may be called up in a system manually by entering a PIN or automatically by using bar code, magnetic stripe, smart card or proximity identification technologies.

Communication Protocols

The following are just some of the communication protocols between readers and door controllers.

26-BIT WIEGAND

Most proximity, biometric and wireless readers are Wiegand compatible and work with most access control panels on the market. Wiegand cannot prevent card duplication and is considered to be a low security format. The standard format for Wiegand is 26 bits.

KANTECH'S SECURE FORMATS

A high security proprietary format created to prevent card duplication. There are two Kantech Secure formats:

- 39-bit XSF (eXtended Secure Format) Available only with ioProx readers and cards
- 34-bit KSF (Kantech Secure Format) Available only with ShadowProx readers and cards and HID cards

Key Questions to Ask Yourself When Choosing a Reader Technology

WHAT LEVEL OF SECURITY DO YOU NEED?

Different access control technologies provide different levels of security. Combining proximity technology with biometrics yields the highest level of security by adding an extra layer of ID verification. You can also use either of these independently or opt for other types of readers that offer a less expensive yet viable alternative for medium and low level security.

WHERE WILL THE READER BE USED?

Heavy traffic requires a technology that can process authorization data quickly. A proximity reader takes less than half a second whereas a biometric reader requires up to two seconds and is better suited to less busy situations. Environmental factors can also affect readers. Proximity readers are the most impervious to the elements. Biometric readers, being the most sensitive, should be used exclusively indoors.

WILL THE READER GROW WITH YOUR ORGANIZATION?

You may find it more efficient and cost-effective to continue using your current technology throughout your operation as it grows.

Multi-technology cards offer the option of combining old with new, letting you retain existing bar code, Wiegand, or mag stripe functions while adopting another type of access control like proximity technology.

ioProx Proximity Readers & Cards



Features That Make a Difference:

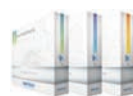
- Choose from Kantech eXtended Secure Format (XSF) or 26-bit Wiegand format
- Digital Signal Processing (DSP) for enhanced security
- Weatherproof design for indoor and outdoor applications
- Integrated piezo buzzer & bicolor LED
- Integrated tamper switch on P600 (optional on other models)
- The use of quick connect terminal blocks (P225 and P325 series) allows for easy wiring and saves installation time
- Use the keypad's * and # buttons in conjunction with the EntraPass software to arm and disarm external alarm panels

Choose from several ioProx readers that easily meet the demands of any application. The readers are attractive, compact, weatherized, and vandal-resistant, making them suitable for installation in a variety of environments. Depending on the model selected and the environmental conditions, read range varies from 16.5 cm to 73 cm (6.5 in to 29 in).

Kantech eXtended Secure Format (XSF) readers are compatible only with Kantech EntraPass software which includes access to over four billion unique codes. ioProx cards are dual-encoded, which means that they contain both XSF and 26-bit Wiegand formats. The same cards can therefore be used with both series' (XSF and 26-bit Wiegand) of ioProx readers.



Related Products



EntraPass Security Management Software



KT-400



T-Rex Request-To-Exit Detector



Badge Printer

Multi-Technology

Proximity/Smart Card Readers



Features That Make a Difference:

- Reads more than 12 different types of proximity cards and contactless smart cards, including ioProx with Kantech XSF
- Uses encryption and custom keys for secure transmission of card data
- Download new functionality or enhancements for a future-proof solution
- Optional keypad for two-factor verification
- Built-in tamper switch provides secure installation

Kantech Multi-Technology Readers provide a multi-protocol, multi-frequency solution that reads multiple 13.56 MHz smart card technologies, MIFARE® encrypted sectors, and most of the common 125 kHz proximity cards including ioProx with Kantech XSF format – all from one reader. The readers are perfect if you want to transition to smart cards over time or if you want to utilize both smart cards and proximity cards at your facility. Kantech Multi-Technology Readers make access control more powerful, more versatile, and more cost-effective by allowing you to implement a smart card solution over time. While you are transitioning to smart cards, the Multi-Technology Readers will read both the existing collection of proximity cards and smart cards.

Card Technologies Supported

- ioProx Kantech XSF
- HID KSF (Kantech Secure Format)
- CASI-RUSCO® Prox Lite
- ISO 14443A (MIFARE) Sector
- HID 26 Bit ISO 14443B Serial Number
- HID Corporate 1000
- ISO 15693 Serial Number
- HID 36 Bit Wiegand
- MIFARE Sector
- HID 37 Bit Wiegand
- DESFire® Serial Number
- Other HID pass through formats
- iCLASS® Serial Number
- Deister Prox SmartFrame®

Related Products



KT-100



KT-300



KT-400



Entrypass Security Software

Exit Control Devices, Electric Strikes & Locks

Access control seems simple enough; you present a card and the door opens. But there is a lot more to it than meets the eye. Exit control devices, electric strikes and locks play an important part.

- **Exit Control Devices**
T.Rex Request to Exit Detector
- **Exit Control Devices**
PB-EXIT Control Button
- **Electric Strikes**
- **Electromagnetic Locks**

Exit Control Devices

T.Rex Request to Exit Detector



Features That Make a Difference:

- 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

The T.Rex creates a new standard and provides a complete solution to exit detection and door surveillance for access control applications.

Outstanding innovations such as X-Y Targeting and Digital Signal Processing (DSP) implementation make the T.Rex the fastest and most reliable exit detector on the market.

Related Products



KT-100



KT-300



KT-400



Entrapass Security Software

Exit Control Devices

PB-EXIT Control Button



Features That Make a Difference:

- Exit signal dispatch to access control system
- Mounts on a single gang box
- Contacts are UL listed with 10 amp capacity

The PB-EXIT control button can be used for momentary release of fail-safe or fail-secure electric locks and widely used in door, gate, exit, automation control, etc. It may also be used to input an exit signal to the access control system. It is a spring-loaded, square green exit button mounted on a stainless steel plate.

The SPDT contacts switch when the button is depressed and return when released. In some areas, local building or fire safety regulations may limit the use of exit buttons and it is recommended to consult or get approval prior to installing exit buttons.

Related Products



KT-100



KT-300



KT-400



Entrapass Security Software

Electric Strikes



Features That Make a Difference:

- Holding force of 634 kg (1,400 lbs) for non-fire rated models

An electric door strike allows doors to remain locked to public access (usually on the exterior side of the door). However, the door may still be opened quickly and easily from the inside without the use of a key. These commercial and industrial rated door strikes can withstand the traffic involved with access control applications.

They are tested to 500,000 cycles. These strikes are fail-secure for free exit applications. They can be used with cylindrical, narrow line and mortise locks with centerline latch entry.

There are a number of other Electric Strikes available to order. Ask your Tyco Security Products Regional Manager for more information

Related Products



KT-100



KT-300



KT-400



Entrapass Security Software

Electromagnetic Locks



Features That Make a Difference:

- Dual voltage
- Adjusting manual bracket
- MOV surge protection
- Anodized clear aluminum finish
- No residual magnetism
- Easy access wiring cavity

These solid construction electromagnetic locks will provide years of maintenance-free operation. Dual voltage (12-24 VDC) operation and up to 680 kg (1,500 lbs) of holding force fits most requirements.

The supervised option (ML831SCSC28 model only) provides lock status information (locked or unlocked) and will detect reduced holding force due to the presence of materials between magnet and armature, or power loss.

There are a number of other Electromagnetic Locks available to order. Ask your Tyco Security Products Regional Manger for more information

Related Products



KT-100



KT-300



KT-400



Entrypass Security Software

Notes



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Notes



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in this catalogue please call
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or visit: www.kantech.com



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CEM SYSTEMS

SOFTWARE HOUSE

BENTEL
SECURITY

DSC

Visonic