

KANTECH

A Tyco International Company



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KANTECH

Founded in 1986, Kantech (part of Tyco Security Products) designs, markets and supports integrated access control technologies that are ready to use right out of the box. Kantech's solutions provide a compact, entry-level solution for smaller businesses while the EntraPass access control software combines with the powerful KT-300 or KT-400 door controllers to provide enhanced capabilities for enterprise scale applications. For additional convenience and security, Kantech solutions can easily link to American Dynamics Intellex digital video management systems to provide an integrated access control and video solution. Kantech also offers out-of-the box integration with intrusion detection and telephone entry systems. All managed from a unified software package. For more information on Kantech access control technologies,

visit www.kantech.com

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

WHY ACCESS CONTROL?

Nothing is more vital to the health of an organization than making sure that its people, material assets and operations are safe and secure. Access control addresses the full scope of risks that might arise, including risks that other security systems such as burglar alarms and intrusion detection simply are not designed to handle. 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. Access control can also integrate with other security and operational systems to give you a comprehensive, cohesive management tool.

TRACKING ACCESS

One of the biggest advantages that our access control systems offer is the ability to determine quickly who may have gained access to critical areas before and after an incident. Even our smallest, single door applications have reporting available that shows an audit trail of door access activity, while our mid-range and large-scale systems can provide in-depth, user-defined documentation.

IMPROVED SECURITY

Access control enhances security by eliminating the need for keys, which are easily lost or duplicated & disappear when terminated employees fail to return them. By using our access control badges instead, you can quickly & conveniently adjust or delete privileges any time an employee's status changes. If you install our access control software on a networked system, you can even perform these tasks from a remote location. Avoiding the annual expense of re-keying a facility is just one of the many financial benefits you will accrue from investing in an access control system from Kantech.

VISUAL VERIFICATION

Our access control systems let you assign different color badges to identify varying levels of access for visitors, temporary employees, contractors, & regular full-time employees. You can also incorporate photo IDs on badges as an additional measure for confirming that the person using a card is the same person to whom it was issued.

LOGISTICS

Profitability at warehouses & distribution centers depends on efficiency & security making sure the right people are in the right place at the right time, & keeping out those who should not be there. Our access control systems help you do this, controlling access to improve employee productivity & punctuality.



WORKPLACE SAFETY

Certain work environments can be hazardous, especially where there is heavy equipment or intense activity. Access control systems from Kantech help you ensure that only authorized individuals enter these areas.

RISK MANAGEMENT

By restricting who gains entry to your property, our access control systems limit your exposure to liability for “slip and fall” cases while also reducing the risk of workplace violence and more. With litigation and work-related assaults costing businesses billions of dollars each year, organizations simply no longer can afford to do without this kind of protection.

RELIABILITY AND SERVICE

At Kantech, we understand the importance of quality products and customer service, and we are dedicated to providing both. Explore our product line and you will discover the easiest to use and easiest to install access control systems in the industry. Call our state-of-the-art Technology Center and receive advanced technical support. Visit the member center on our website and you will find innovative online tools to help locate the product information you need to expedite purchasing decisions.

We will continue to focus on what matters most to you. Count on us for responsive customer service and reliable access control solutions that are as scalable and easy to install as they are easy to use.

Guidelines for the Product Guide

Each chapter introduces a family of products available from Kantech & includes useful information for placing your order. You will find listings of key features, model numbers, & comparison charts that provide a fast & easy overview of each product line. Please refer to the legend below for additional help in understanding the model numbers. The product dimensions are represented as height x width x depth, or height x width x length or diameter.

| COMMON ABBREVIATIONS | |
|-------------------------|------------------------|
| mm = millimeters | kg = kilograms |
| in or " = inches | lbs = pounds |
| km = kilometers | mi = miles |
| MB = megabytes | MHz = megahertz |
| GB = gigabytes | kHz = kilohertz |

Helpful tips on Model Numbers
The following characters at the end of a model number signify

EN = English

SP = Spanish

FR = French

KSF = Kantech Secure Format

XSF = Kantech eXtended Secure Format

W26 = 26-bit Wiegand Format

PLATE = Backplate

KP = Keypad

Examples

E-COR-EN-V4

E-COR-SP-V4

E-COR-FR-V4

HID-C1336KSF

VPRX-IO-XSF

VPRX-IO-W26

T.REX-PLATE

KP-2500






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

CHOOSE THE ACCESS CONTROL SOFTWARE THAT IS RIGHT FOR YOU

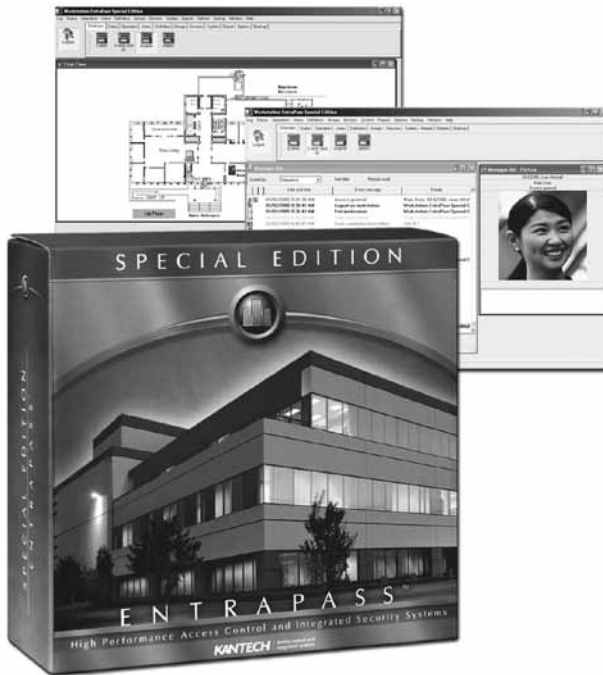
| EntraPass Comparison Table | | | |
|---|---|---|---|
| |  EntraPass Special Edition |  EntraPass Corporate Edition |  EntraPass Global Edition |
| Operator Workstations | 1 | 2 + 1 (up to 20+1) | 4 + 1 (up to 128+1) |
| # of Gateways | 1 on System | 1 (up to 41) | 1 (up to 128) |
| # of Cards | Unlimited Database* | Unlimited Database* | Unlimited Database* |
| Maximum # Readers/Keypads | 128 (KT-100/KT-300), 256 (KT-400) | 34,816 per Gateway (KT-300) 69,632 per Gateway (KT-400) | Per Global Gateway: 2,048 (KT-300), 4,096 (KT-400) Per Corporate Gateway: 34,816 (KT-300), 69,632 (KT-400) |
| Maximum # Controllers | 64 per System | 17,408 per Gateway | 4,096 per Global Gateway 512 per KT-NCC, 69,932 per Corporate 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 Corporate 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 | HDVR and Intellex Video Management Systems ** | HDVR and Intellex Video Management Systems ** | HDVR and Intellex Video Management Systems ** |
| Integrated Badging | Yes | Yes | Yes |
| Maximum # Remote Dial-up Sites/ IP-link/KT-400 | 64 | 512 per Gateway | 512 per Corporate Gateway |
| Maximum # Online Local Sites/ UDS-1100 | 32 | 32 per Gateway | 32 per Global Gateway, 32 per Corporate 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, Paradox, Dbase IV) | Yes | Yes | Yes |
| Operating System | Windows XP Pro, Server 2003, Server 2008, Vista and Windows 7 Pro 32 and 64-bit with their latest Service Packs | Windows XP Pro, Server 2003, Server 2008, Vista and Windows 7 Pro 32 and 64-bit with their latest Service Packs | Windows XP Pro, Server 2003, Server 2008, Vista and Windows 7 Pro 32 and 64-bit with their latest Service Packs |
| Virtual Alarm Systems | No | No | Yes, 100 per Global Gateway & KT-NCC |
| Arm/Disarm External Alarms | Yes | Yes | Yes, using Corporate Gateway |
| (KT-100, KT-300 or KT-400) DSC PowerSeries Integration | PC-1616-1832-1864 | PC-1616-1832-1864 | PC-1616-1832-1864 using Corporate Gateway |
| 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 [‡] |

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

** Requires v3.1 or higher for Intellex Ultra, DVMS, IP, & v2.6 or higher for Intellex LT; visit www.americandynamics.net for more detailed information about Intellex

‡ Optional, sold separately

EntraPass Special Edition



EntraPass protects hospital staff & their patients by preventing unauthorized access to sensitive or secure areas.

EntraPass Special Edition

EntraPass Special Edition is a single-workstation security software package that accommodates an unlimited number of cardholders & controls up to 128 doors with KT-100 & KT-300, up to 256 doors with KT-400. With a distributed architecture, EntraPass Special Edition provides connections to remote sites using direct connections, dial-up modems, & IP communication using Kantech IP Link with KT-100 & KT-300 door controllers, or using the KT-400 Ethernet-ready four-door controller. Both IP Link & KT-400 provide secure communication via 128-bit AES encryption with the EntraPass system & communicate over the network only as required, keeping network traffic down to a minimum. The EntraPass Special Edition also integrates with Kantech Telephone Entry System (KTES) to bring you an access control solution with telephone entry access capabilities. Video integration with American Dynamics HDVR and Intellex video management systems allows operators to define video parameters and to use video features from EntraPass user interfaces.

EntraPass Special Edition

FEATURES

- Controls up to 128 readers with KT-100 & KT-300; and up to 256 readers with KT-400
- Integrates with KT-400, an Ethernet-ready four-door controller with onboard IP connectivity
- Emailing reports capability
- Encrypted site communication
- Express setup automatically configures system components
- EntraPass workspaces let you control what operators can see
- Embed DVR, IP cameras, web pages, or network files into EntraPass using WebViews
- Two concurrent languages per system
- Elevator control for up to 64 floors per elevator
- Integrated badging solution
- Integrates with Kantech Telephone Entry System
- Time & attendance & roll call reporting
- Full integration with DSC PowerSeries Alarm Panels
- Integrates with American Dynamics HDVR and Intellex Digital Video Management Systems

RECOMMENDED COMPUTER REQUIREMENTS

Processor: (without video integration): Dual Core. Compatible with Windows 7 in 32 and 64-bit Versions

Processor (with video integration): Intel Core 2 Quad Processor Q9400 (6M Cache, 2.66 GHz, 1333 MHz FSB). Compatible with Windows 7 in 32 and 64-bit versions

RAM: 2 GB

Free Hard Disk Space for Software: 20 GB (30 GB with video integration)

Screen Resolution: 1024 x 768

Graphic Adapter Card (without video integration): AGP or PCI Express 8X graphics card with 64 MB memory and DirectX 9.0 support

Graphic Adapter Card (with video integration): NVS 295 or equivalent

DVD/CD-ROM Drive: 48x

Network Interface Card: 10/100Base-T (Gigabit or greater with video integration)

Operating System Compatibility: Windows XP Pro, Server 2003, Server 2008, Vista and Windows 7 Pro 32 and 64-bit with their latest Service Packs

MODEL NUMBERS

Software

| | |
|---------------------|---|
| E-SPE-EN-V4 | EntraPass Special Edition v4.xx, software and English manual only |
| E-SPE-FR-V4 | EntraPass Special Edition v4.xx, software and French manual only |
| E-SPE-SP-V4 | EntraPass Special Edition v4.xx, software and Spanish manual only |
| E-SPE-V4 | EntraPass Special Edition v4.xx software only |
| E-SPE-UPG-V4 | EntraPass Special Edition upgrade from v3.xx to v4.xx software only |

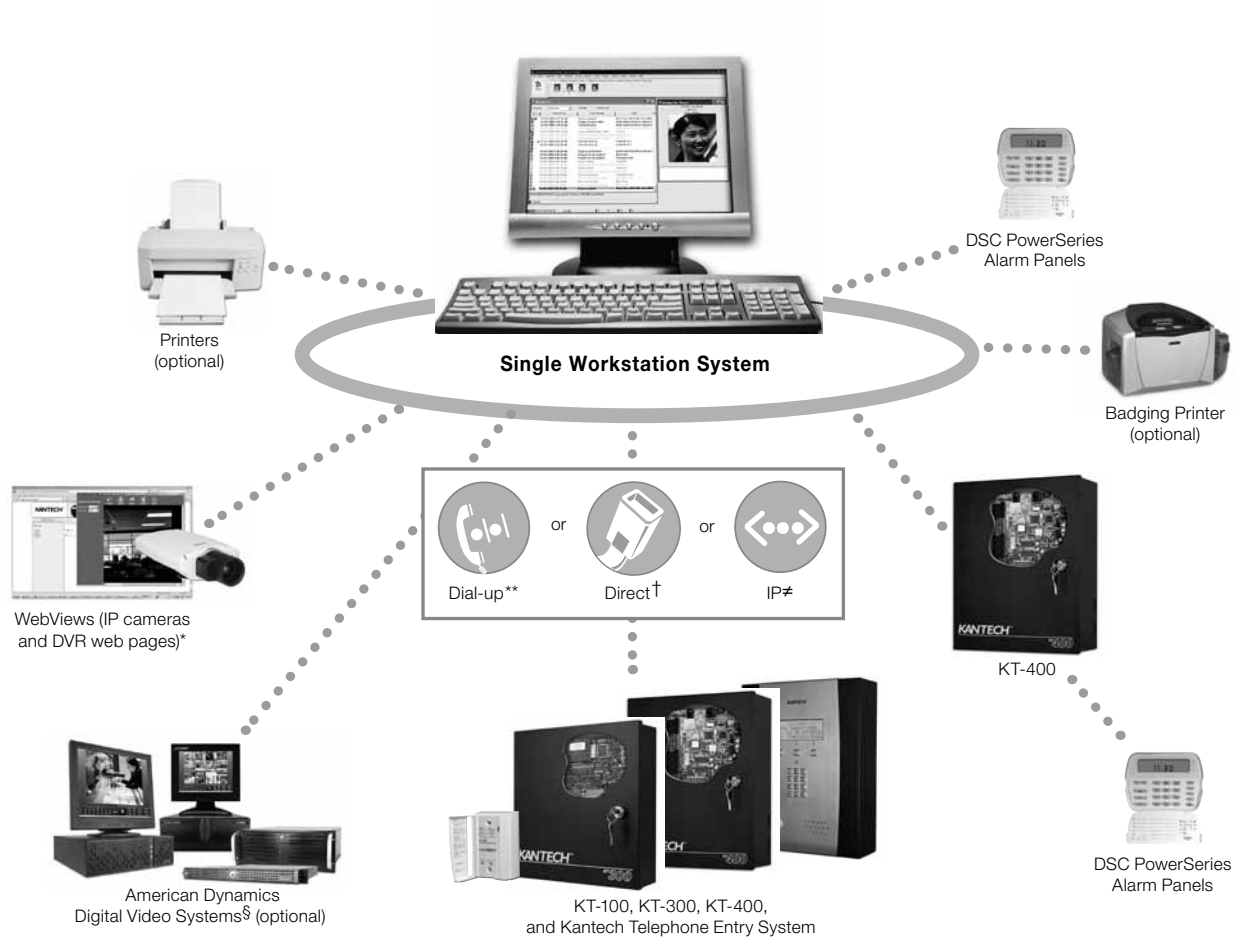
KAP (Kantech Advantage Program - see note at end of EntraPass section in this guide)

| | |
|--------------------|---|
| E-SPE-KTK-1 | Kantech Token for EntraPass Special (1) |
|--------------------|---|

Manuals

| | |
|---------------------|---|
| E-SPE-MAN-EN | EntraPass Special Edition manual, English |
| E-SPE-MAN-FR | EntraPass Special Edition manual, French |
| E-SPE-MAN-SP | EntraPass Special Edition manual, Spanish |

SYSTEM DIAGRAM



* A variety of IP cameras & DVR web pages have been tested successfully using WebViews. For a detailed list, please contact your sales representative

** 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)

† 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

‡ Ethernet TCP/IP: using Kantech IP Link (KT-100 also requires VC-485 converter) or KT-400

§ Requires software v3.1 or higher for Intellex Ultra, DVMS, and IP; v2.6 or higher for Intellex LT

EntraPass Corporate Edition



Warehouse managers around the globe rely on EntraPass for both efficient operations and security. EntraPass helps improve productivity by tracking employees' attendance. It also helps to keep anyone without authorization away from valuable inventory as well as heavy machinery that can pose a liability.

EntraPass Corporate Edition

EntraPass Corporate Edition is a powerful, multi-user access control system that provides features such as WebViews for integrating and displaying live video from IP cameras and SmartLink Task Commander that allows you to automate system tasks. The software also integrates with Kantech Telephone Entry System, providing a robust security solution for multi-tenant buildings. The software adapts easily to meet the needs of growing businesses, allowing users to manage one building or access multiple remote sites from a network.

This proven platform gives you the ultimate balance between power and affordability in a network environment. EntraPass Corporate Edition's distributed system architecture provides connections to remote sites using direct connections, dial-up modems, and IP communication servers using Kantech IP Link with KT-100 and KT-300 door controllers or the KT-400 Ethernet-ready four-door controller. Both IP Link and KT-400 provide secure communication via 128-bit AES encryption with the EntraPass system and keep network traffic down to a minimum by communicating over the network only when necessary. Integration with American Dynamics HDVR and Intellex digital video management systems, dramatically increases security by allowing visual observations of monitored areas. It also allows security personnel to link an access control event to a video clip directly from their access control application.

FEATURES

- Supports up to 20 workstations and controls hundreds of thousands of doors
- Operates securely over a network using either Kantech IP Link with KT-100 and KT-300 controllers or the Ethernet ready KT-400 controller
- EntraPass workspaces let you control what operators can see
- Manage your system remotely with EntraPass WebStation
- Embed DVRs, IP cameras, web pages, or network files into EntraPass using WebViews
- Eight operator configurable desktops with unlimited interactive floor plans provide a highly customized experience for each workstation
- SmartLink Task Commander automates system tasks
- Integrated badging solution
- Elevator control for up to 64 floors per elevator
- Optional redundancy server ensures that critical data is available even in the event of server communication failure
- Card gateway allows for real-time card management with third party databases (Oracle/MS SQL HR)
- Full integration with DSC PowerSeries Alarm Panels
- Time and attendance and roll call reporting
- Integrates with Kantech Telephone Entry System
- Integrates with American Dynamics HDVR and Intellex Digital Video Management Systems

RECOMMENDED COMPUTER REQUIREMENTS

Processor: (without video integration): Dual Core. Compatible with Windows 7 in 32 and 64-bit Versions

Processor (with video integration): Intel Core 2 Quad Processor Q9400 (6M Cache, 2.66 GHz, 1333 MHz FSB). Compatible with Windows 7 in 32 and 64-bit versions

RAM: 2 GB

Free Hard Disk Space for Software: 20 GB (30 GB with video integration)

Screen Resolution: 1024 x 768

Graphic Adapter Card (without video integration): AGP or PCI Express 8X graphics card with 64 MB memory and DirectX 9.0 support

Graphic Adapter Card (with video integration): NVS 295 or equivalent

DVD/CD-ROM Drive: 48x

Network Interface Card: 10/100Base-T (Gigabit or greater with video integration)

Operating System Compatibility: Windows XP Pro, Server 2003, Server 2008, Vista and Windows 7 Pro 32 and 64-bit with their latest Service Packs

MODEL NUMBERS

| | |
|------------------------|---|
| Software | Each EntraPass Corporate Edition software package includes: two additional workstation licenses, one server/workstation license, one gateway license and one WebStation license |
| E-COR-EN-V4 | EntraPass Corporate Edition v4.xx, software and English manual only |
| E-COR-FR-V4 | EntraPass Corporate Edition v4.xx, software and French manual only |
| E-COR-SP-V4 | EntraPass Corporate Edition v4.xx, software and Spanish manual only |
| E-COR-V4 | EntraPass Corporate Edition software only |
| E-COR-UPG-EN-V4 | EntraPass Corporate Edition upgrade from v3.xx to v4.xx software and English manual only |
| E-COR-UPG-FR-V4 | EntraPass Corporate Edition upgrade from v3.xx to v4.xx software and French manual only |
| E-COR-UPG-SP-V4 | EntraPass Corporate Edition upgrade from v3.xx to v4.xx software and Spanish manual only |
| E-COR-UPG-V4 | EntraPass Corporate Edition upgrade from v3.xx to v4.xx software only |

Additional Gateway and Workstation Licenses

| | |
|------------------|---|
| E-COR-WS1 | EntraPass Corporate Edition, license for 1 additional workstations (v3.xx and higher) |
| E-COR-WS6 | EntraPass Corporate Edition, license for 6 additional workstations (v3.xx and higher) |
| E-COR-COM | EntraPass Corporate Edition, license for 40 additional gateways (v3.xx and higher) |

Options

| | |
|--------------------|--|
| E-COR-RDN | EntraPass Corporate Edition option, license for 1 Redundancy Server (v3.xx and higher) |
| E-COR-SQL | EntraPass Corporate Edition option, license for 1 Card Gateway (Oracle/MS-SQL HR interface) (v3.xx and higher) |
| E-COR-VVM | EntraPass Corporate Edition option, license for 1 EntraPass Video Vault (v3.xx and higher) |
| E-COR-WEB-1 | EntraPass Corporate Edition option, license for 1 concurrent WebStation (v4.xx and higher) |
| E-COR-WEB-3 | EntraPass Corporate Edition option, license for 3 concurrent WebStation (v4.xx and higher) |

KAP (Kantech Advantage Program - see note at end of EntraPass section in this guide)

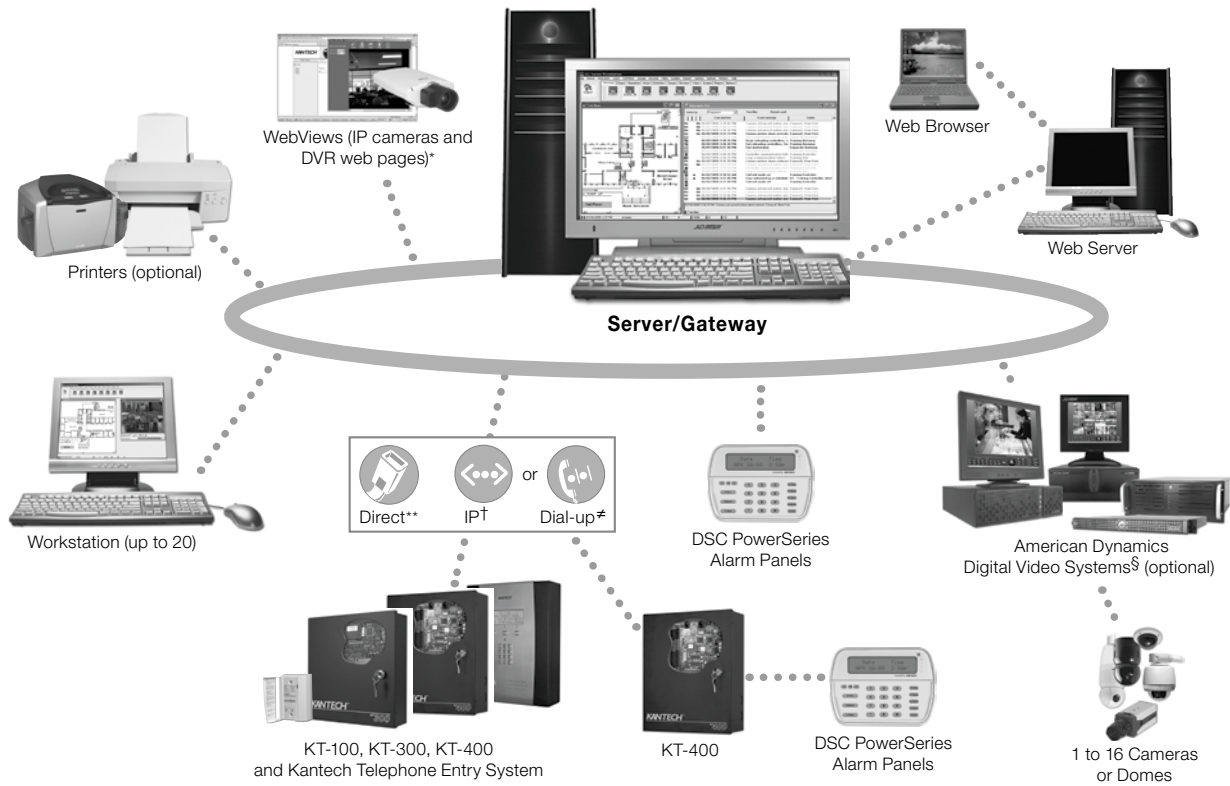
| | |
|---------------------|---|
| E-COR-KTK-1 | Kantech Token for EntraPass Corporate (1) |
| E-COR-KTK-2 | Kantech Tokens for EntraPass Corporate (2) |
| E-COR-KTK-3 | Kantech Tokens for EntraPass Corporate (3) |
| E-COR-KTK-5 | Kantech Tokens for EntraPass Corporate (5) |
| E-COR-KTK-10 | Kantech Tokens for EntraPass Corporate (10) |

Manuals

| | |
|---------------------|---|
| E-COR-MAN-EN | EntraPass Corporate Edition manual, English |
| E-COR-MAN-FR | EntraPass Corporate Edition manual, French |
| E-COR-MAN-SP | EntraPass Corporate Edition manual, Spanish |

EntraPass Corporate Edition

SYSTEM DIAGRAM



* A variety of video products have been tested successfully using WebViews. For a complete list, contact Kantech sales

** Direct: using RS-232 or RS-485 with USB-485 or VC-485 converter, KT-100 using RS-485 with converter

† IP using Kantech IP Link or KT-400 Ethernet controller

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

§ Requires software v3.1 or higher for Intellex Ultra, DVMS, and IP; v2.6 or higher for Intellex LT



EntraPass Global Edition is the most powerful software package Kantech has to offer. It features global anti-passback, area management, WebViews for integrating and displaying live video from IP cameras, and SmartLink Task Commander that allows you to automate system tasks.

EntraPass Global Edition

EntraPass provides solutions for even the most demanding and widely-dispersed applications. The software also integrates with Kantech Telephone Entry System, providing a robust security solution for multi-tenant buildings. The EntraPass Global Edition multi-workstation software package accommodates an unlimited number of users, controls up to 266,144 card readers per Global Gateway, and allows users to simultaneously access the system from up to 128 workstations connected to the network. EntraPass Global Edition's distributed architecture supports connections to remote sites using direct connections, dial-up modems, and IP communication with KT-100 and KT-300 controllers using Kantech IP Link, or the KT-400 Ethernet-ready four-door controller with an onboard Ethernet port. Both Kantech IP Link and KT-400 provide secure communication via 128-bit AES encryption with the EntraPass system. All communication is sent over the network only when required, keeping network traffic down to a minimum. Video integration between EntraPass Global Edition and American Dynamics HDVR and Intellex digital video management systems dramatically increases security by linking access control events, such as "door forced open", to a video clip directly from the access control application.

EntraPass Global Edition

FEATURES

- Supports up to 128 workstations & controls hundreds of thousands of doors
- Supports KT-NCC for extremely reliable global functionality when used with the KT-100, KT-300, & KT-400 door controllers
- Supports Kantech IP Link with KT-100 & KT-300 controllers or the Ethernet-ready KT-400 controller (requires Corporate Gateway)
- Create multiple cards per user for more efficient card management
- EntraPass workspaces let you control what operators can see
- Manage your system remotely with EntraPass WebStation
- Embed DVRs, IP cameras, web pages, or network files into EntraPass using WebViews
- Eight operator-configurable desktops with unlimited interactive floor plans provide a highly customized experience for each workstation
- Integrates with Kantech Telephone Entry System (requires Corporate Gateway)
- Interfaces with paging systems, HVAC systems, & more with innovative SmartLink feature
- SmartLink Task Commander automates system tasks
- Optional redundancy server ensures that critical data is available even in the event of server communication failure
- Card gateway allows for real-time card management with third party databases (Oracle/MS SQL HR)
- Full integration with DSC PowerSeries Alarm Panels
- Time & attendance & roll call reporting
- Integrates with American Dynamics HDVR and Intellex Digital Video Management Systems

RECOMMENDED COMPUTER REQUIREMENTS

Processor: (without video integration): Dual Core. Compatible with Windows 7 in 32 and 64-bit Versions

Graphic Adapter Card (without video integration): AGP or PCI Express 8X graphics card with 64 MB memory and DirectX 9.0 support

Processor (with video integration): Intel Core 2 Quad Processor Q9400 (6M Cache, 2.66 GHz, 1333 MHz FSB). Compatible with Windows 7 in 32 and 64-bit versions

Graphic Adapter Card (with video integration): NVS 295 or equivalent

DVD/CD-ROM Drive: 48x

RAM: 2 GB

Network Interface Card: 10/100Base-T (Gigabit or greater with video integration)

Free Hard Disk Space for Software: 20 GB (30 GB with video integration)

Operating System Compatibility: Windows XP Pro, Server 2003, Server 2008, Vista and Windows 7 Pro 32 and 64-bit with their latest Service Packs

MODEL NUMBERS

Software Each EntraPass Global Edition software package includes: four additional workstation licenses, one server/workstation license, one gateway (Windows NCC) license and one WebStation license

E-GLO-EN-V4 EntraPass Global Edition v4.xx, software and English manual only
E-GLO-FR-V4 EntraPass Global Edition v4.xx, software and French manual only
E-GLO-V4 EntraPass Global Edition v4.xx software only
E-GLO-UPG-EN-V4 EntraPass Global Edition upgrade from v3.xx to v4.xx software and English manual only
E-GLO-UPG-FR-V4 EntraPass Global Edition upgrade from v3.xx to v4.xx software and French manual only
E-UPG-V4 EntraPass Global Edition upgrade from v3.xx to v4.xx software only

Additional Gateway and Workstation Licenses

E-GLO-WS1 EntraPass Global Edition, license for 1 additional workstation (v3.xx and higher)
E-GLO-WS8 EntraPass Global Edition, license for 8 additional workstations (v3.xx and higher)
E-GLO-COM-WIN EntraPass Global Edition, license for 16 additional Global gateways (Windows NCC) (v3.xx and higher)
E-GLO-CORCOM EntraPass Global Edition, license for 40 additional Corporate gateways (v3.xx and higher)

Options

E-GLO-RDN EntraPass Global Edition option, license for 1 Redundancy Server (v3.xx and higher)
E-GLO-SQL EntraPass Global Edition option, license for 1 Card Gateway (Oracle/MS-SQL HR interface) (v3.xx and higher)
E-GLO-VVM EntraPass Global Edition option, license for 1 EntraPass Video Vault (v3.xx and higher)
E-GLO-WEB-1 EntraPass Global Edition WebStation option, license for 1 web concurrent (v4.xx and higher)
E-GLO-WEB-3 EntraPass Global Edition WebStation option, license for 3 web concurrent (v4.xx and higher)

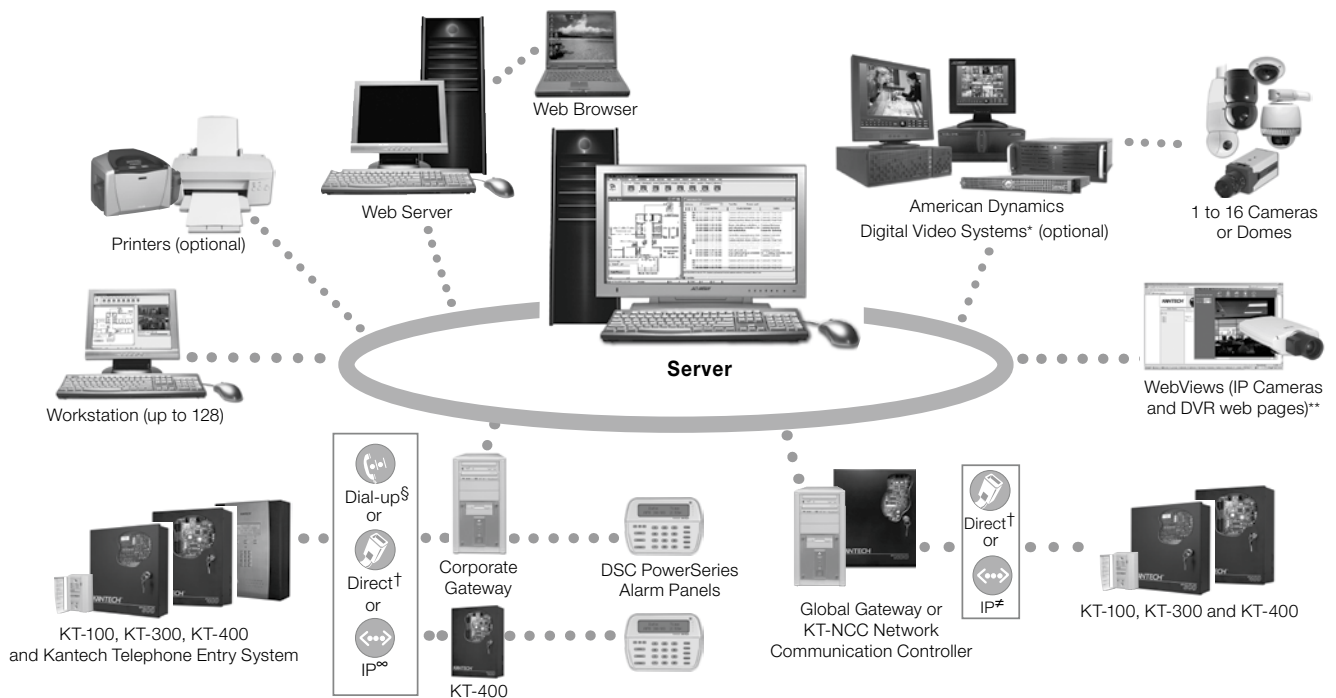
KAP (Kantech Advantage Program - see note at end of EntraPass section in this guide)

E-GLO-KTK-1 Kantech Token for EntraPass Global (1)
E-GLO-KTK-2 Kantech Token for EntraPass Global (2)
E-GLO-KTK-3 Kantech Token for EntraPass Global (3)
E-GLO-KTK-5 Kantech Token for EntraPass Global (5)
E-GLO-KTK-10 Kantech Token for EntraPass Global (10)
E-GLO-KTK-20 Kantech Token for EntraPass Global (20)

Manuals

E-GLO-MAN-EN EntraPass Global Edition manual, English
E-GLO-MAN-FR EntraPass Global Edition manual, French

SYSTEM DIAGRAM



* Requires software v3.1 or higher for Intellex Ultra, DVMS, and IP and v2.6 or higher for Intellex LT

** Many different video products have been tested successfully using WebViews - for an updated list please contact your sales representative

† Direct: using RS-232 or RS-485 with USB-485 or VC-485 converter, KT-100 using RS-485 with converter

‡ IP under Global Gateways using Lantronix Universal Device

§ 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)

∞ IP using Kantech IP Link or KT-400 Ethernet controller

EntraPass Kantech Advantage Program (KAP)

An optional Kantech Advantage Program (KAP) program provides 12 months of updates and end user online training. As EntraPass continues to deliver new features and enhancements, it is more important than ever that you have the education and tools necessary to most effectively use the solution. These optional KAP's ensure that you receive new functionalities and end user online training with software updates. EntraPass customers who choose not to purchase a KAP will still continue to receive technical support for their current installations and can purchase options but will not receive new features as they become available. Customers who purchase and activate KAP's during the first year are entitled to a bonus of up to 12 months of online training. KAPs are obtained by purchasing Kantech tokens. The size of your EntraPass installation (Special, Corporate, or Global Edition), along with the number of installed options, will determine how many tokens will be required to purchase a KAP plan. The base EntraPass systems require a minimum of one to three tokens per year to maintain. To this base a number of tokens needs to be added, depending on the options you have installed on your system. Below is an easy calculation table. You can also log into EntraPass and go into the server registration window to obtain this information which is automatically calculated by your system.

EntraPass Special Edition

| System/Option | Details | Tokens per year |
|---------------------------------------|---------------------------------------|-----------------|
| EntraPass Special Edition Base System | No option installs on Special Edition | 1 |

EntraPass Corporate Edition

| System/Option | Details | Tokens per year |
|----------------------------------|--|-----------------|
| EntraPass Corporate Edition Base | System before options | 1 |
| Web Concurrent Licenses | For each three concurrent licenses | 1 |
| Video Vault | For each Video Vault | 1 |
| Card Gateway | For each Card Gateway | 1 |
| Redundant Server | For Redundant Server option | 1 |
| Workstations Corporate Edition | For every pack of four active workstations | 1 |
| Corporate Gateways | Not Applicable | 0 |
| SmartLinks | Not Applicable | 0 |
| Server workstation | Not Applicable | 0 |

EntraPass Global Edition

| System/Option | Details | Tokens per year |
|--------------------------------------|--|-----------------|
| EntraPass Global Edition Base System | System before options | 3 |
| Web Concurrent Licenses | For each three concurrent licenses | 1 |
| Video Vault | For each Video Vault | 1 |
| Card Gateway | For each Card Gateway | 1 |
| Redundant Server | For Redundant Server option | 1 |
| Workstations Global Edition | For every pack of five active workstations | 1 |
| Corporate Gateways | Not Applicable | 0 |
| Global Gateways | Not Applicable | 0 |
| SmartLinks | Not Applicable | 0 |
| Server workstation | Not Applicable | 0 |

KT-NCC (Network Communication Controller)



KT-NCC is perfect for customers looking for a better way to manage access control for a widely-dispersed environment without running into reliability issues common with most PCs.

KT-NCC

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).

KT-NCC (Network Communication Controller)

FEATURES

- 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

MODEL NUMBERS

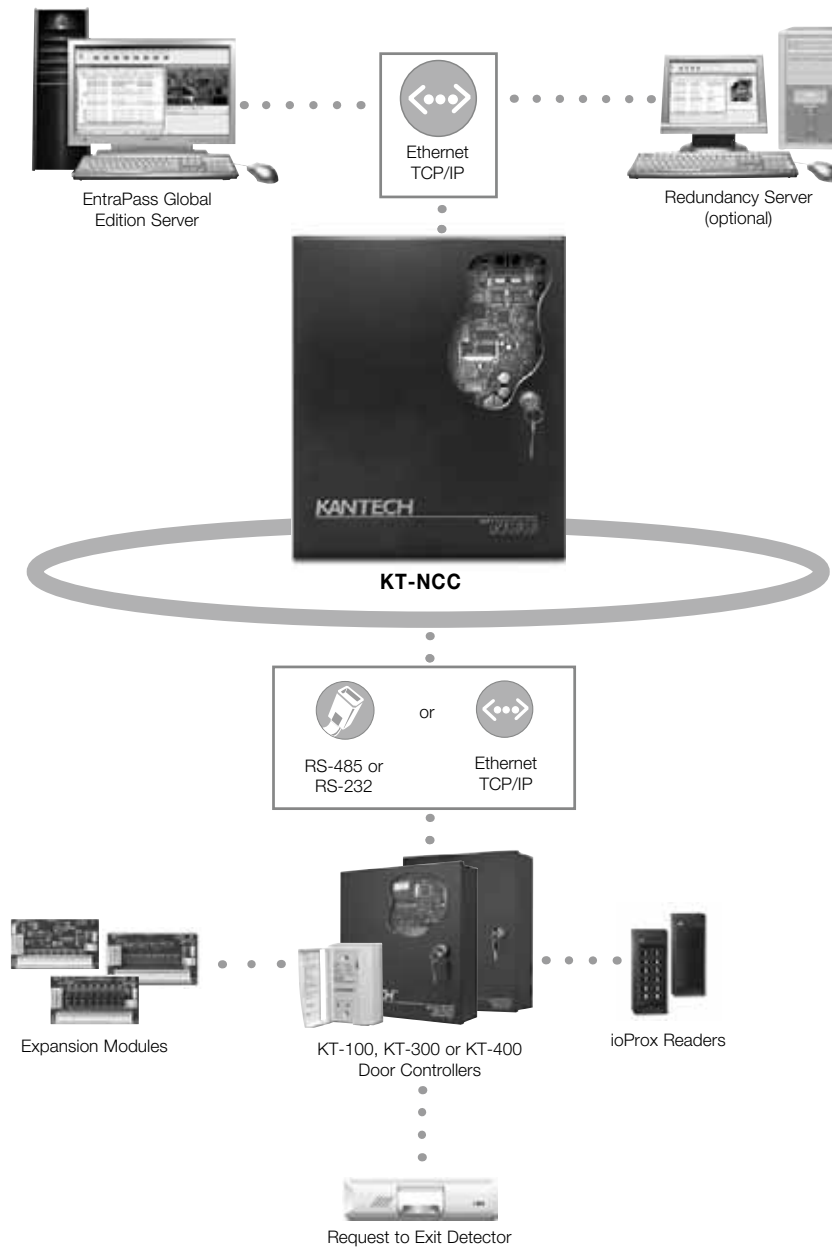
- KT-NCC** Embedded Network Communication Controller (NCC), includes black metal cabinet (KT-NCC-CAB) and accessory kit (KT-NCC-ACC) with lock (KT-LOCK) and tamper switch (KT-TAMPER), compatible with EntraPass Global Edition v3.17 and higher
- KT-NCC-PCB** Embedded NCC PCB only, includes accessory kit (KT-NCC-ACC), battery and ground cables, hardware to affix wire and the PCB

ACCESSORIES

- KT-NCC-ACC** Accessory kit for KT-NCC, includes RS-232 to VC-485 flat cable with RJ-12 male connectors, and screwdriver
- KT-NCC-CAB** Black metal cabinet for KT-NCC, includes KT-LOCK and ground cable

KT-NCC (Network Communication Controller)

SYSTEM DIAGRAM



EntraPass Advanced Security Features



EntraPass integrates with American Dynamics Intellex digital video management system to provide real-time video monitoring as well as video playback of critical access events.

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.

EntraPass Advanced Security Features

DSC PowerSeries Alarm Panel Integration

EntraPass v4.03 and higher provides full integration with DSC PowerSeries alarm panels (PC1616, PC1832, PC1864). A KT-400 controller or Corporate Gateway can be directly connected to DSC Power Series alarm panel to receive intrusion events, view the status of zones, and manage partitions and user codes. In addition you can arm/disarm single/multiple partitions via reader (KT-400 only) or manual operation.

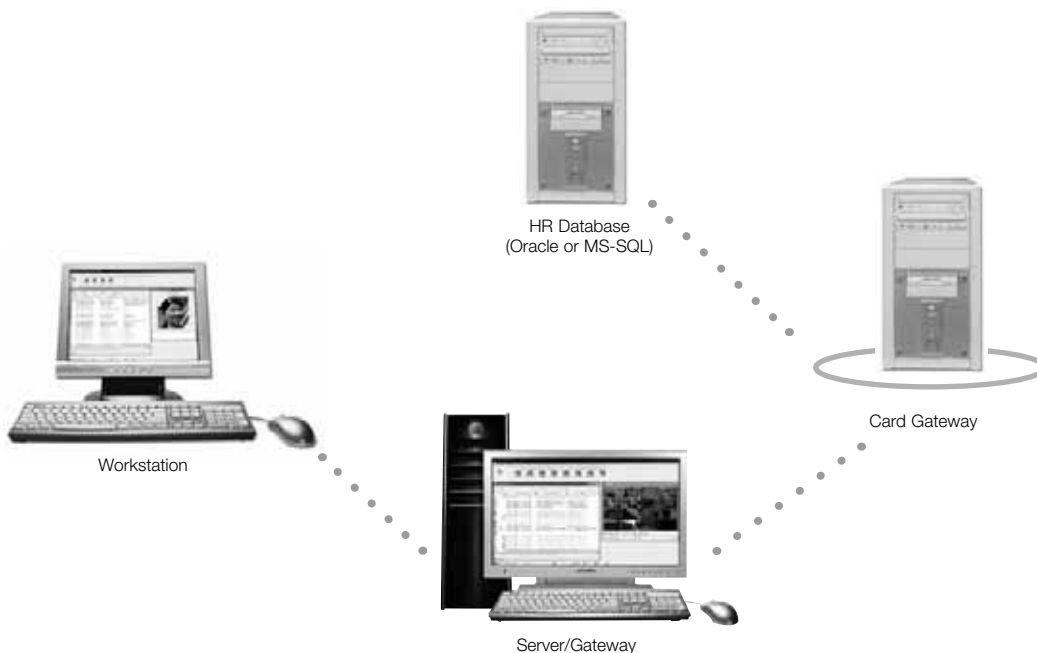


Workspaces

EntraPass workspaces simplify and improve system management by providing customized views of the 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 enable the creation of different views of the EntraPass system that can be saved and applied to any operator. This feature allows an operator to further create and refine their own views by filtering out components that are not necessary for day-to-day operations. The operator can create, save and reuse temporary workspaces. This feature is useful whenever a recurring operation is needed on the system, such as when creating reports. Workspaces can also be applied to desktops to specify which events and messages can be displayed on a particular PC. An installer can use such a workspace in addition to their own operator workspace to filter messages during a customer installation.

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.



EntraPass Advanced Security Features

Enhanced Video Integration

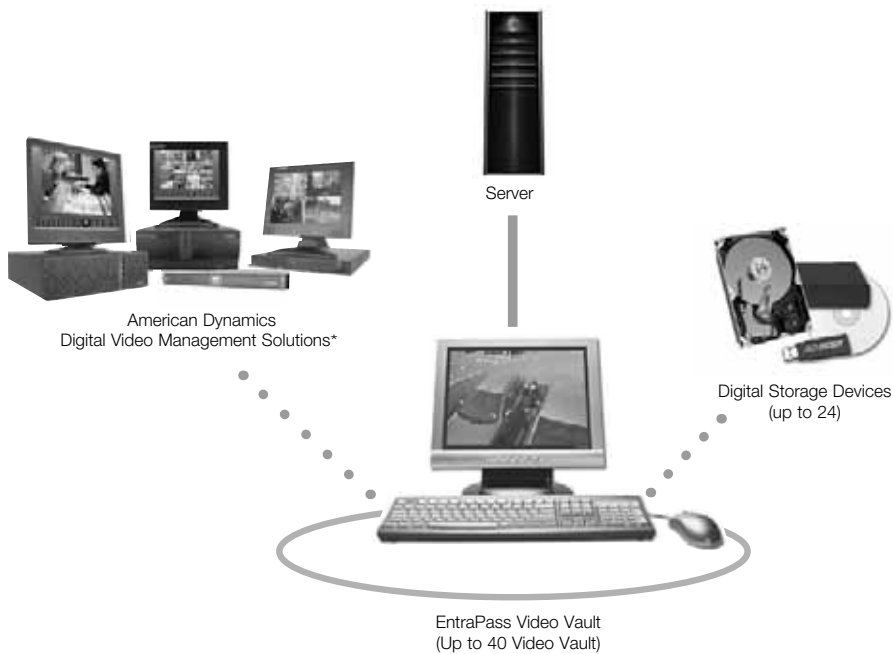
Kantech provides a powerful integrated access control and digital video solution with its EntraPass access control software and American Dynamics' Intellex Digital Video Management System. By combining the easy-to-use EntraPass interface with the power of Intellex, this integrated solution sets the standard for real-time video monitoring as well as video playback of critical access events. Video can be linked to access control events and recorded from different Intellex systems simultaneously. Presets (called from any kind of alarm), 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 icon.

This integrated solution is made even more powerful with EntraPass Video Vault, which allows users to automatically archive and password-protect video clips through the EntraPass system.

EntraPass Video Vault Option

Installed on the network, the optional 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 rejected card) and Video Vault saves them to the appropriate group based on whatever schedules are chosen.

The file type (.KVI, .KVA, .IMG, or .AVI) can be pre-designated prior to saving; and both .KVI and .KVA file types can be assigned password protection. Video clips can also be organized as .BMP images in lieu of icons. Select the first frame (taken from the onset of pre-alarm footage), the event frame (which coincides with the precise moment of the alarm), or any other frame within the clip. Video vault can connect up to 128 Intellex systems via integration with EntraPass and can archive the imported video to as many as 24 digital storage devices.



* 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.

EntraPass Advanced Security Features

Managed Security Services

Kantech offers an industry first security solution designed to combine the power of and to bridge the gap between a hosted and a fully managed solution. Offering access control to your customers has never been easier. Kantech Managed Security Services solutions are in place worldwide and are the security industry's preferred choice. Customers can remotely manage their access control system from anywhere in the world via the internet.

No on-site PC or server is required, there is no need for on-site software and no specialized training is required. Fully featured, secure, flexible and easy to install, Kantech is the access control solution of choice from a single door to a large enterprise. Add it all up and Kantech Managed Security Services offers low cost of ownership and real-time monitoring, all within a web-based, easy-to-use interface.

Redundancy Server

An optional Redundancy Server with a mirror database monitors all data activity on the 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

SmartLink allows EntraPass to integrate with any third party application or database. SmartLink uses built-in macros to help to design in the most commonly requested integrated applications such as CCTV multiplexers, HVAC systems, LCD panels, video matrix switchers, etc. The integration is accomplished by using an RS-232 or network connection between the system and the third-party device. For advanced system integration, SmartLink enables communication with software applications such as time and attendance, badging, human resource management, student registration, and more through Ethernet, TCP/IP, an RS-232 port, API, or with DLLs. This allows complete and real-time data exchange between systems, eliminating duplicate data entry.



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 Door Controller



Security professionals can count on the scalability of KT-400 to handle their ever-changing needs. From a small, single-door business, to a bustling multi-tenant facility, KT-400 is very flexible and is easily expandable.

KT-400 Door Controller

KT-400 is an Ethernet-ready four-door controller that provides 128-bit AES encrypted communication with the EntraPass system and is a highly secure solution for any security-conscious business. KT-400 can easily be integrated into an existing EntraPass system with other Kantech controllers (KT-100 and KT-300) or can provide the foundation for a brand new security installation. With an onboard Ethernet port, an external IP device is no longer required to connect to the network. The onboard port is dual-sensing, which means the system senses whether the connection is 10Base-T or 100Base-T, and adjusts automatically for faster connectivity. KT-400 manages network polling and communicates with the EntraPass Gateway only when an event has occurred. Communication integrity is ensured through a heartbeat signal which is sent at regular intervals to the EntraPass system. This asynchronous communication significantly reduces the amount of bandwidth required to manage the access control system over the network.

KT-400 Door Controller

FEATURES

- Supports four readers
- Onboard Ethernet 128-bit AES-encrypted communication with the EntraPass system ensures a high degree of network security
- Control the occupancy level in a defined location with the anti-passback feature
- 100,000 cards capacity and provides up to 20,000 concurrent events in stand-alone mode
- 256 outputs (four onboard) provide scalability
- Communicates with the EntraPass Gateway only when an event has occurred, ensuring low network bandwidth consumption (Special and Corporate Editions only)
- Verify and configure IP settings with a built-in web configuration page
- Supervised door lock outputs with internal or external power supply
- LEDs provide important controller status and diagnostic information
- Additional battery supervision and monitoring help ensure controller functionality

MODEL NUMBERS

- KT-400** KT-400 four-door controller, IP-ready, accessory kit (KT-400-ACC), metal cabinet (KT-400-CAB) with lock (KT-LOCK)
- KT-400-PCB** KT-400 four-door controller (PCB only), IP-ready, accessory kit (KT-400-ACC)

ACCESSORIES

- KT-400-ACC** KT-400 Accessory Kit includes, four 1.0 K ohm, 32/5.6 K ohm resistors, ground wire, and screwdriver
- KT-400-CAB** KT-400 black metal cabinet with lock (KT-LOCK)
- KT-400-CON** KT-400 removable terminal block spare kit
- KT-ACPW-LED** UL AC power LED indicator
- KT-3LED-PLATE** UL-listed alarm, three-color LED indicator mounted on single gang plate
- KT-TAMPER** Tamper switch for KT-400-CAB & KT-MOD-CAB metal cabinets
- KT-LOCK** Lock for KT-400-CAB & KT-MOD-CAB metal cabinets and two keys

POWER SUPPLIES

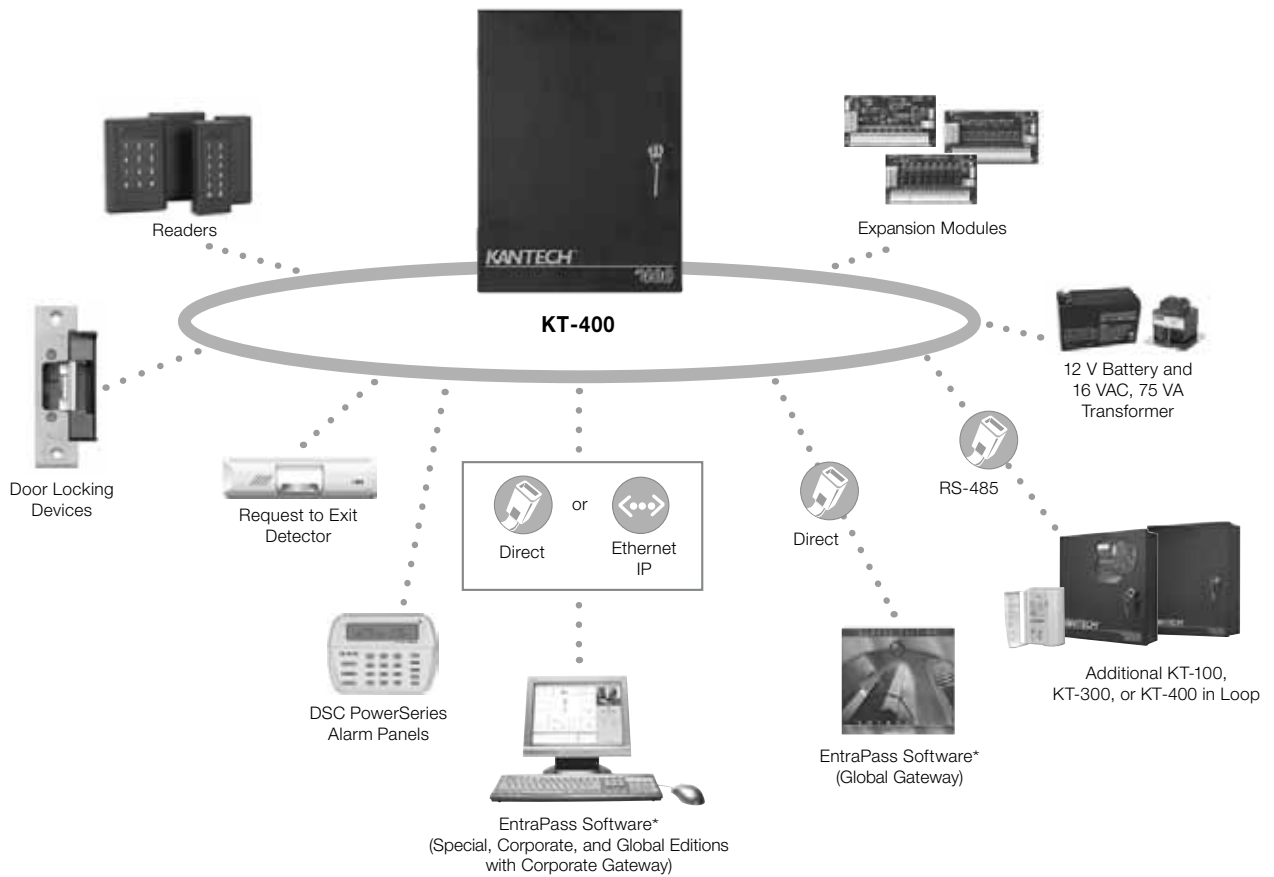
- TR1675** TR1675 KT-400 transformer, wire-in, 110 VAC/ 16.5 VAC (75 VA), UL approved
- KT-SW1224** Power supply for expansion modules 12 VDC, 2 Amp

EXPANSION MODULES

- KT-MOD-INP16** KT-400 expansion module 16-zone input with SPI cable (KT-MOD-SPI-16)
- KT-MOD-OUT16** KT-400 expansion module 16-output with SPI cable (KT-MOD-SPI-16)
- KT-MOD-REL8** KT-400 expansion module 8-relay with SPI cable (KT-MOD-SPI-16)
- KT-MOD-SPI-16** KT-400 SPI cable 40.6 cm (16 in) for expansion modules, with connector at one end
- KT-MOD-SPI-36** KT-400 SPI cable 91.4 cm (36 in) for expansion modules, with connector at one end
- KT-MOD-CAB** KT-400 expansion module cabinet, black, with 91.4 cm (36 in) SPI cable (KT-MOD-SPI-36) & lock (KT-LOCK)

KT-400 Door Controller

SYSTEM DIAGRAM



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

KT-300 Door Controller



The KT-300 is a powerful and scalable door controller that is designed to meet the highest standards of access control and door monitoring applications. The KT-300 controls 2 doors and is easily linked to a network controlling millions of doors.

KT-300 Door Controller

The KT-300 door controller supports up to two readers, which can be installed either on 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 be linked with other door controllers to provide control over millions of doors.

Stand-alone mode protects against power or system failures and the system stores cardholder and event data, which is automatically transmitted back to the EntraPass system once the network connection is restored. Flash memory allows for firmware updates from an EntraPass workstation in just a few minutes.

Built-in Combus expansion means that relay, input, and output modules can be added to connect HVAC systems, elevators, motion detectors, and more. The Combus is a communication protocol that is integral to the KT-300. It uses a four-conductor cable bus to which several expansion modules can be connected.

FEATURES

- Controls two doors and easily links to a network
- Update the firmware directly from system workstation
- Fast, up to 115,200 baud
- Ready to go, no DIP switches or jumpers to set
- 5V and 12V reader power
- Interfaces with an external alarm system
- Supervises battery conditions and reports low battery/no battery status to the system
- Automatic trouble reporting
- All power outputs are individually protected against short circuits and surges by a self-resetting PTC
- Choice of two memory capacities, 128K or 512K

MODEL NUMBERS

| | |
|---------------------|---|
| KT-300/128K | KT-300 two-door controller, 128KB memory, accessory kit (KT-300-ACC), metal cabinet (KT-300CAB) with lock (KT-LOCK) |
| KT-300/512K | KT-300 two-door controller, 512KB memory, accessory kit (KT-300-ACC), metal cabinet (KT-300CAB) with lock (KT-LOCK) |
| 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) |

ACCESSORIES

| | |
|--------------------|---|
| 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 |
| KT-300CAB | KT-300 accessory, black metal cabinet with lock (KT-LOCK) |
| KT-LOCK | Lock for KT-300-CAB & KT-4051-CAB, metal cabinets, 2 keys |
| KT-TAMPER | Tamper switch for KT-300-CAB & KT-4051CAB, metal cabinets |
| KT-300FLASH | Replacement firmware |
| KT-RM1 | External isolation relay, single pole, double through (SPDT) for output RL1/RL2 |

POWER SUPPLIES

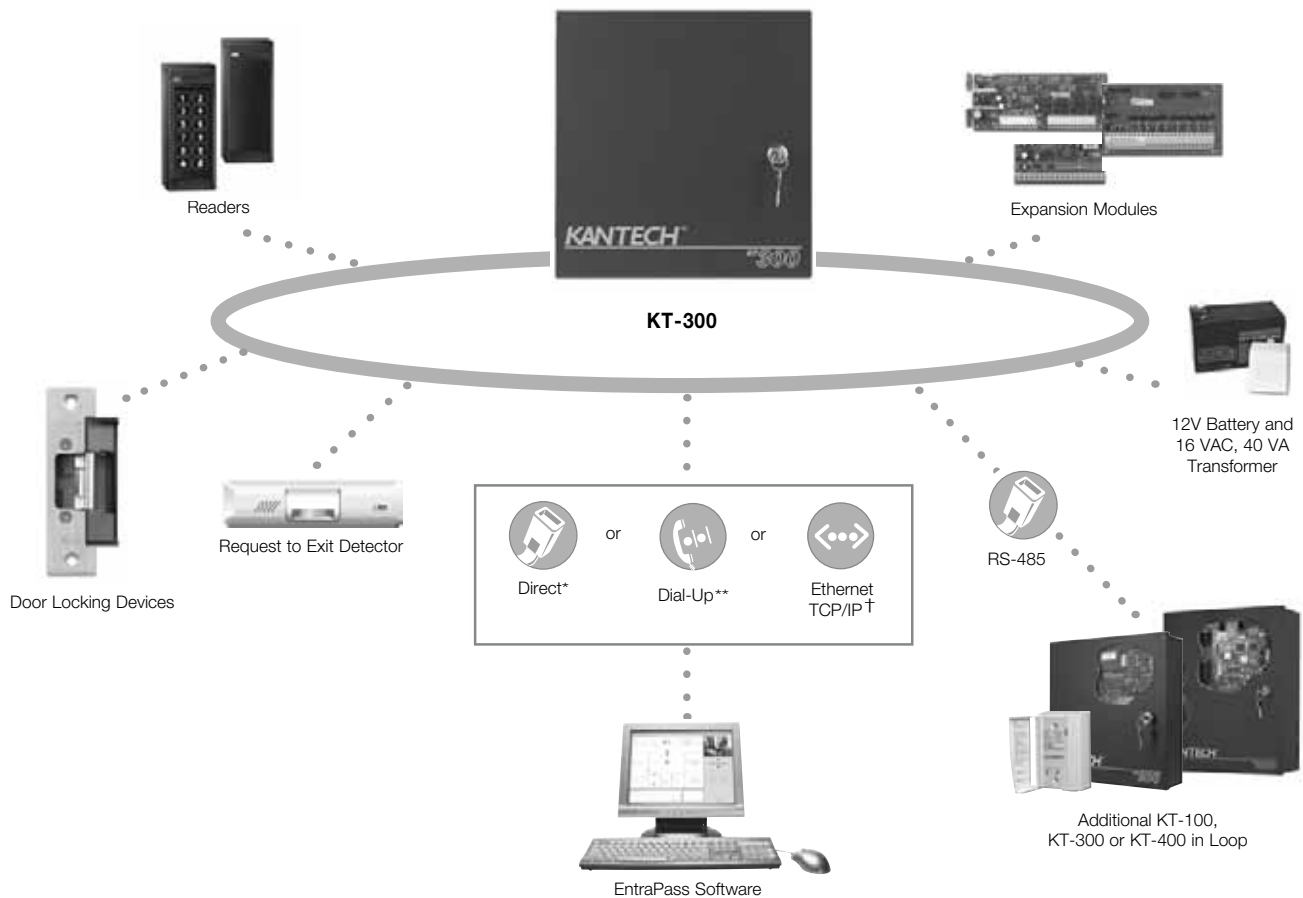
| | |
|--------------------|--|
| TR1637W/CSA | KT-300 transformer, wire-in, 110 VAC/ 16 VAC (37 VA), CSA approved |
| TR1640P/UL | KT-300 transformer, plug-in, 110 VAC/ 16 VAC (40 VA), UL approved |
| TR1640P/CSA | KT-300 transformer, plug-in, 110 VAC/ 16 VAC (40 VA), CSA approved |
| TR1640W-220 | KT-300 transformer, wire-in, 220 VAC/ 16 VAC (37 VA), CE approved |

EXPANSION MODULES

| | |
|-------------------|---|
| KT-4051CAB | KT-300 expansion module cabinet black |
| KT-PC4108 | KT-300 expansion module, 8-zone input module |
| KT-PC4204 | KT-300 expansion module, 4-relay and COMBUS additional power supply |
| KT-PC4216 | KT-300 expansion module, 16-output module |
| KT3-LCD | KT-300 expansion module, LCD time and date display |

KT-300 Door Controller

SYSTEM DIAGRAM



* 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

KT-100 Mini Door Controller



The KT-100 can control two readers on one door. When coupled with the EntraPass access control software, it offers a compact, versatile solution for applications such as turnstiles.

KT-100 Mini 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, or anywhere that requires less than 3.28 m (10 ft) of wiring.

The KT-100 contains all the intelligence and necessary inputs/outputs to manage one door or link to a network controlling thousands of doors.

The firmware program is stored in the controller flash memory and can easily be downloaded from the system's EntraPass workstation without changing the memory chips. The KT-100 also allows installers to arm/disarm an external alarm system and to assign appropriate user permissions.

KT-100 Mini Door Controller

FEATURES

- Single door controller
- Automated trouble reporting
- Update firmware directly from the workstation
- Flash memory programming
- Quick and easy installation, in a single gang box
- No DIP switches or jumpers to set decreases installation time
- Fast communication speed, up to 115,200 baud
- Interfaces with an external alarm system

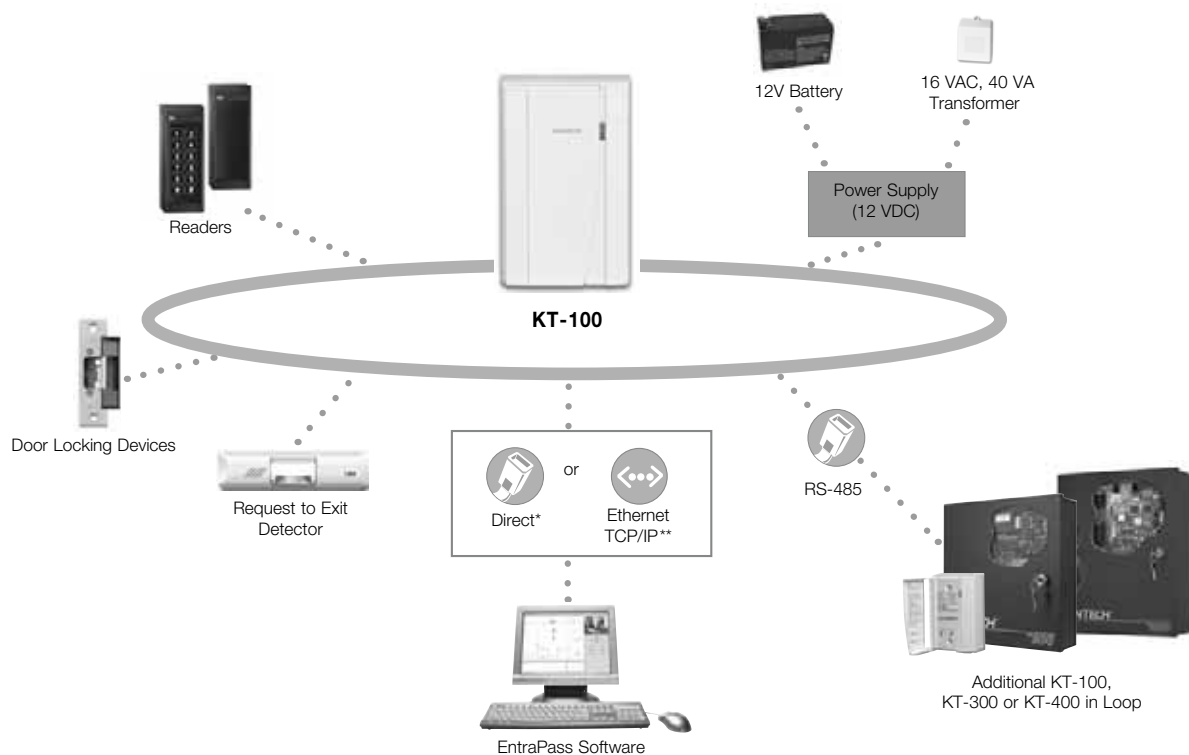
MODEL NUMBERS

KT-100 KT-100 mini door controller, for two readers one door

ACCESSORY

MUSB-1WHT Plastic surface mounting box, white

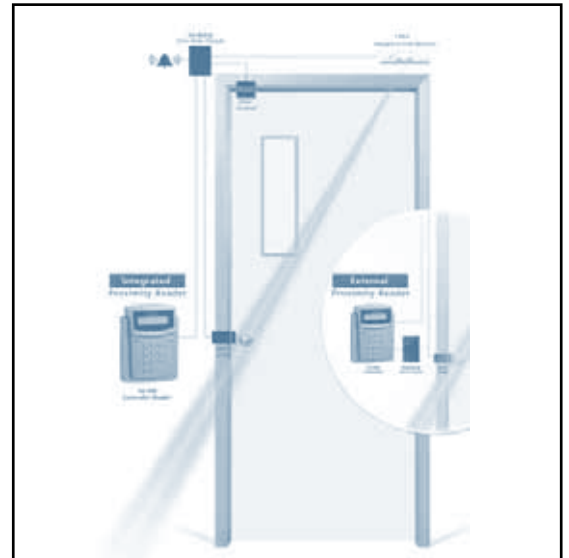
SYSTEM DIAGRAM



* Direct: Using USB-485 or VC-485 converter with first controller in loop

** Ethernet TCP/IP: Using VC-485 and KT-IP Link Module

ioPass Stand-Alone Door Controller/Reader



The ioPass relay module is separate from the unit and can be concealed inside a wall or ceiling, providing higher security.

ioPass Stand-Alone Door Controller/Reader

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.

FEATURES

- 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

MODEL NUMBERS

- SA-500-EN** ioPass stand-alone door controller, with integrated ioProx reader, up to 5,000 users, ten keytags (P40KEY), one relay module (SA-RM56) English manual
- SA-600-EN** ioPass stand-alone door controller, with external ioProx reader, up to 5,000 users, ten keytags (P40KEY), one relay module (SA-RM56) English manual

ACCESSORY

- SA-RM56** Additional/replacement relay module for SA-500 or SA-600 units

KT-300 & KT-400 Demo Kit



Kantech's all-inclusive Demo Kit provides an easy, portable solution. This self-contained unit lets you give a professional presentation with minimal set-up time.

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.

MODEL NUMBERS

- DU4-120V-PLC** Demo Kit, includes: PCB controller (KT-400-PCB), proximity readers with integrated keypad (P225KPXSf & P325KPXSf), proximity readers (P225XSf & P325XSf), USB to RS-485 converter (USB-485), USB cable, five keytags (P40KEY), three standard cards (P10SHL), UL rated transformer (TR1640P/UL), with Pelican case
- DU4-120V** Demo Kit, includes: PCB controller (KT-400-PCB), proximity readers with integrated keypad (P225KPXSf & P325KPXSf), proximity readers (P225XSf & P325XSf), USB to RS-485 converter (USB-485), USB cable, five keytags (P40KEY), three standard cards (P10SHL), UL rated transformer (TR1640P/UL), no case
- DU3-120V-PLC** Demo Kit, includes: PCB controller (KT-300PCB128), proximity reader with integrated keypad (P225KPXSf), proximity reader (P325XSf), USB to RS-485 converter (USB-485), USB cable, five keytags (P40KEY), three standard cards (P10SHL), UL rated transformer (TR1640P/UL), and push buttons, with Pelican case
- DU3-120V** Demo Kit, includes: PCB controller (KT-300PCB128), proximity reader with integrated keypad (P225KPXSf), proximity reader (P325XSf), USB to RS-485 converter (USB-485), USB cable, five keytags (P40KEY), three standard cards (P10SHL), UL rated transformer (TR1640P/UL), and push buttons, no case

Access Control Kits



Choosing an access control system doesn't have to require hours spent sorting through hundreds of software, hardware, and reader offerings. Kantech's Access Control Kits include all of the components you need to get up and running quickly and easily.

Starter Kits



Small and medium organizations can benefit from access control just as much as large enterprises. Kantech Access Control Starter Kits make it easy to get started.

Starter Kits

Kantech Access Control Starter Kits offer a comprehensive solution for growing businesses that are seeking an easy-to-use and highly reliable access control system. This all-inclusive kit provides everything needed to create a complete access control system. From the powerful EntraPass software and KT-300 or KT-400 door controllers to all of the peripherals in between, the Starter Kit makes sure nothing is left to chance.

MODEL NUMBERS

- SK-CE402** EntraPass Corporate Edition software CD-ROM, KT-400 controller (1), ioProx P225XSF reader (4), USB-485 converter (1), TR1675 transformer (1), KT-BATT-12 battery (1) and ioProx P40KEY keyfob (5). (USA and Canada)
- SK-CE403** EntraPass Corporate Edition software CD-ROM, KT-400 controller (1), ioProx P325XSF reader (4), USB-485 converter (1), TR1675 transformer (1), KT-BATT-12 battery (1) and ioProx P40KEY keyfob (5). (USA and Canada)
- SK-SE302** EntraPass Special Edition software CD-ROM, KT-300/128K controller (1), ioProx P225XSF reader (2), USB-485 converter (1), TR1640P/UL transformer (1), KT-BATT-12 battery (1), KT-RM1 relay (2) and ioProx P40KEY keyfob (5). (USA only)



Everything required to expand an existing access control system is included in one easy-to-install Expansion Kit.

Expansion Kits

The Expansion Kits offer a comprehensive and easy to install solution for small to medium size businesses to expand their access control system in 2-door increments (KT-300) or 4-door increments (KT-400). The expansion kits are compatible with EntraPass Special Edition, Corporate Edition and Global Edition.

MODEL NUMBERS

| | |
|-----------------|--|
| EK-400 | KT-400 controller (1), TR1675 transformer (1) and KT-BATT-12. (USA and Canada) |
| EK-402 | KT-400 controller (1), ioProx P225XSF reader (4), TR1675 transformer (1) and KT-BATT-12. (USA and Canada) |
| EK-403 | KT-400 controller (1), ioProx P325XSF reader (4), TR1675 transformer (1) and KT-BATT-12. (USA and Canada) |
| EK-302 | KT-300/128K controller (1), ioProx P225XSF reader (2), TR1640P/UL transformer (1), KT-BATT-12 battery (1), KT-RM1 relay (2). (USA only) |
| EK-IP302 | KT-300/128K controller (1), ioProx P225XSF reader (2), VC-485 converter (1), TR1640P/UL transformer (1), KT-BATT-12 battery (1), KT-RM1 relay (2) and KT-IP communication device (1). (USA only) |
| EK-IP300 | KT-300/128K controller (1), VC-485 converter (1), TR1640P/UL transformer (1), KT-BATT-12 battery (1), KT-RM1 relay (2) and KT-IP communication device (1). (USA only) |
| EK-DU302 | KT-300/128K controller (1), P225XSF reader (2), TR1640P/UL transformer (1), KT-BATT-12 battery (1), KT-RM1 relay (2) and DU-MODEM-RS modem (1). (USA only) |
| EK-DU300 | KT-300/128K controller (1), TR1640P/UL transformer (1), KT-BATT-12 battery (1), KT-RM1 relay (2) and DU-MODEM-RS modem (1). (USA only) |

Multi-Door Controller & Expansion Kits

EK-4RDR-ADD
Multi-Door Expansion Kit



EK-4RDR-12
42-inch Multi-Door Controller Kit
shipped with 2 KT-300 controllers.
Image shown fully configured.



EK-4RDR-8
28-inch Multi-Door Controller Kit
shipped with 2 KT-300 controllers.
Image shown fully configured.



Kantech's multi-door controllers cost-effectively consolidate multiple KT-300 door controllers in a single enclosure.

Multi-Door Controller & Expansion Kits

Kantech Multi-Door Controller Kits provide all the necessary hardware components in one box, from powerful KT-300 Kantech door controllers to readers and keytags, to complete or extend an access control system. The Multi-Door Controller Kits are available in two enclosure size models: a 28" enclosure that can accommodate up to four KT-300 controllers and a 42" enclosure that can accommodate up to six KT-300 controllers. The kits are ideal for large applications where space, time and budget are important considerations. Rather than having to install separate enclosures for each Kantech door controller, the Multi-Door Controller Kits enable you to mount multiple door controllers inside a single enclosure. This is a valuable benefit for sites with limited wall space.

For added convenience, the Kantech Multi-Door Expansion Kit lets you expand your access control system in four-door increments. This kit provides the basic peripherals to expand your system such as additional KT-300 controllers, transformers, rechargeable batteries and more - all with the convenience of one model number.

Multi-Door Controller & Expansion Kits

FEATURES

- Controls up to 8 or 12 doors from one enclosure (depending on model size enclosure)
- Cost-effectively consolidate multiple Kantech door controllers in a single enclosure to provide a streamlined installation
- Supports all Kantech software including EntraPass Special Edition, EntraPass Corporate Edition, and EntraPass Global Edition
- Expand the system in four-door increments using the Multi-Door Expansion Kit

MODEL NUMBERS

| | |
|--------------------|--|
| EK-4RDR-8 | 4-Door Kit, 8-Door Enclosure Multi-Door Controller Kit includes KT-CAB3000LDR 28" enclosure with door cover (1), KT-MP300 mounting plates (2), KT-BB100/BB101 battery brackets, KT-300PCB128 controller - PCB only (2), KT-300 ACC accessory kits (2), ioProx P225XSF readers (4), TR1640P/UL transformers (2), KT-BATT-12 rechargeable batteries (2), KT-RM1 relays (4), ioProx P40KEY keytags (25), KT-TAMPER tamper switch (1), KT-LOCK lock and keys (1). UL certified kit. |
| EK-4D-8 | 4-Door Kit, 8-Door Enclosure Multi-Door Controller Kit includes KT-CAB3000LDR 28" enclosure with door cover (1), KT-MP300 mounting plates (2), KT-BB100/BB101 battery brackets, KT-300PCB128 controller - PCB's only (2), KT-300 ACC accessory kits (2), TR1640P/UL transformers (2), KT-BATT-12 rechargeable batteries (2), KT-RM1 relays (4), KT-TAMPER tamper switch (1), KT-LOCK lock and keys (1). UL certified kit. NO READERS. |
| EK-4RDR-12 | 4-Door Kit, 12-Door Enclosure Multi-Door Controller Kit includes KT-CAB4000LDR 42" enclosure with door cover (1), KT-MP300 mounting plates (2), KT-BB100/BB101 battery brackets, KT-300PCB128 controller - PCB's only (2), KT-300 ACC accessory kits (2), ioProx P225XSF readers (4), TR1640P/UL transformers (2), KT-BATT-12 rechargeable batteries (2), KT-RM1 relays (4), ioProx P40KEY keytags (25), KT-TAMPER tamper switch (1), KT-LOCK lock and keys (1). UL certified kit. |
| EK-4D-12 | 4-Door Kit, 12-Door Enclosure Multi-Door Controller Kit includes KT-CAB4000LDR 42" enclosure with door cover (1), KT-MP300 mounting plates (2), KT-BB100/BB101 battery brackets, KT-300PCB128 controller - PCB's only (2), KT-300 ACC accessory kits (2), TR1640P/UL transformers (2), KT-BATT-12 rechargeable batteries (2), KT-RM1 relays (4), KT-TAMPER tamper switch (1), KT-LOCK lock and keys (1). UL certified kit. NO READERS. |
| EK-4RDR-ADD | Multi-Door Expansion Kit includes KT-MP300 mounting plates (2), KT-BB100/BB101 battery plates (2), KT-300PCB128 controller - PCBs only (2), KT-300-ACC accessory kits (2), ioProx P225XSF readers (4), TR1640P/UL transformers (2), KT-BATT-12 rechargeable batteries (2), KT-RM1 relays (4). UL certified kit. |
| EK-4D-ADD | Multi-Door Expansion Kit includes KT-MP300 mounting plates (2), KT-BB100/BB101 battery plates (2), KT-300PCB128 controller - PCBs only (2), KT-300-ACC accessory kits (2), TR1640P/UL transformers (2), KT-BATT-12 rechargeable batteries (2), KT-RM1 relays (4). UL certified kit. NO READERS. |

ACCESSORIES

| | |
|----------------------|--|
| KT-CAB3000LDR | 28-inch enclosure with door cover for up to four KT-300 PCB controllers, or up to three KT-400-PCB controllers. |
| KT-CAB4000LDR | 42-inch enclosure with door cover for up to six KT300 PCB controllers, or up to four KT-400-PCB controllers. |
| KT-MP200 | Mounting plates (15.2 x 10.2 cm/6 x 4 in) for KT-PC4108 and KT-PC4216 modules. Compatible with enclosure KT-CAB3000LDR and KT-CAB4000LDR (Package of 4). |
| KT-MP300 | Mounting plates (15.2 x 20.3 cm/6 x 8 in) for KT-300PCB and KT-PC4204 module. Compatible with enclosure KT-CAB3000LDR and KT-CAB4000LDR (Package of 2). |
| KT-MP400 | Mounting plate (15.5 x 29.9 cm/6 x 11.8 in) for KT-400-PCB and KT-NCC-PCB. Compatible with enclosure KT-CAB3000LDR and KT-CAB4000LDR. |
| KT-MP500 | Mounting plate (34.9 x 34.9 cm/13.6 x 13.6 in) for KT-400-PCB and KT-NCC-PCB. Compatible with enclosure KT-CAB3000LDR [up to (2) KT-MP500] and KT-CAB4000LDR [up to (3) KT-MP500]. |
| KT-BB100 | Battery bracket (right side). Compatible with enclosure KT-CAB3000LDR and KT-CAB4000LDR. |
| KT-BB101 | Battery bracket (left side). Compatible with enclosure KT-CAB3000LDR and KT-CAB4000LDR. |

Kantech Telephone Entry System

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



Kantech Telephone Entry System (KTES)



Kantech puts control in the hands of residents and property managers with its advanced, vandal-resistant telephone entry system.

Kantech Telephone Entry System (KTES)

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.

FEATURES

- 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

MODEL NUMBERS

WITH PHONE LINE OPTION:

KTES-125US and KTES-125CDN Kantech Telephone Entry System: standard 125 tenants; optional 250 tenants using EntraPass v4.03 and higher; maximum 3,000 tenants (see options for more details). Also includes KTES EntraPass software, 16 VAC/40 VA UL or CSA approved transformer (1) and KTES-ACC-KIT accessory kit (1).

NO PHONE BILL OPTIONS:

KTES-5048MC System kit includes: controller & decoder with cabinet for up to 48 lines max. Requires KTES-125xx, line card KTES-5000RB, interconnecting cable KTES-5000IC and transformer 16 VAC, 40 VA (TR1640P/UL or TR1640P/CSA)

KTES-5000MC System kit includes: controller with cabinet for up to 1152 lines max. per system. Requires KTES-125xx, KTES-5000AC and transformer 16 VAC, 40 VA (TR1640P/UL or TR1640P/CSA)

KTES-5000AC Auxiliary relay cabinet & decoder for up to 96 lines max. per cabinet. Requires KTES-5000RB, KTES-5000IC and transformer 16 VAC, 40 VA (TR1640P/UL or TR1640P/CSA). Compatible with KTES-5000MC

KTES-5000RB Line Card for 12 tenants. Requires Interconnecting cable KTES-5000IC

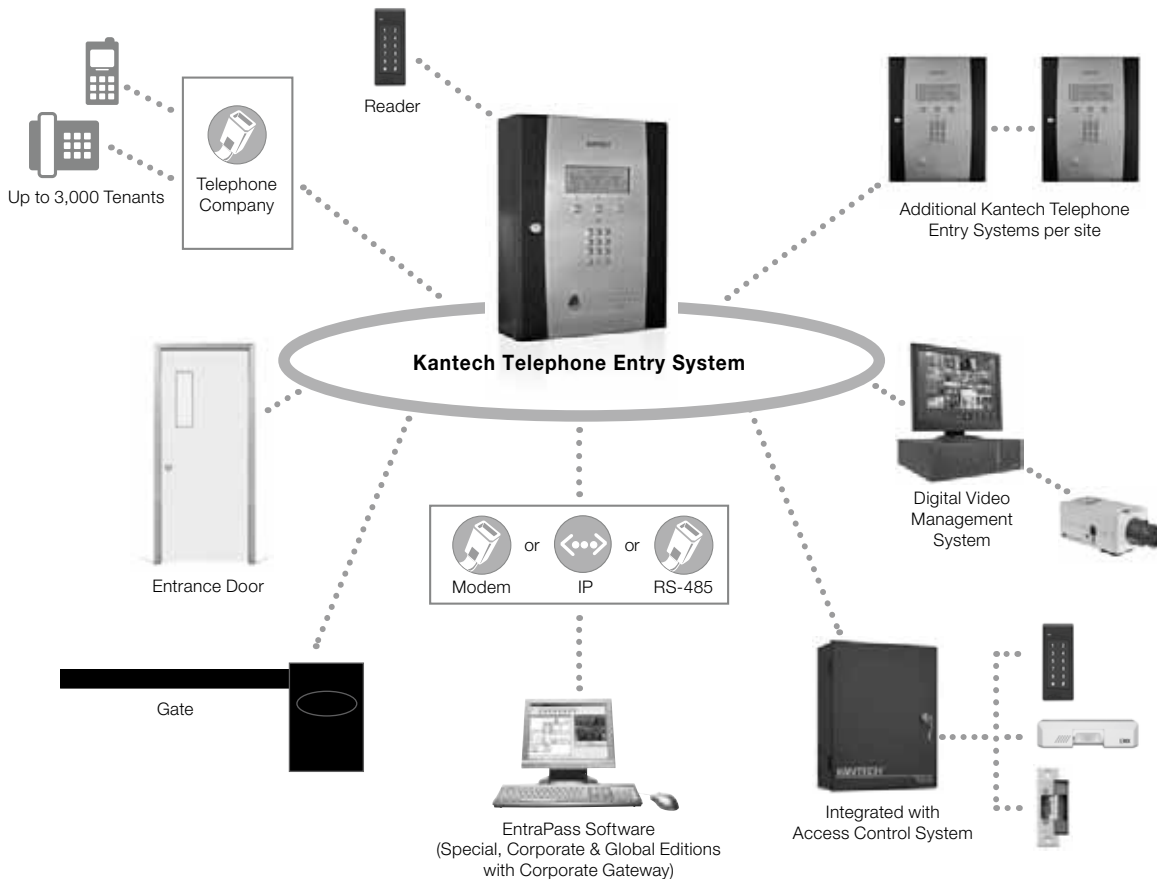
KTES-5000IC Interconnecting cable CA71A/RJ71C. Compatible with line card KTES-5000RB

Kantech Telephone Entry System (KTES)

ACCESSORIES

| | |
|---------------------|--|
| E-KTES-3000 | Option for a maximum of 3,000 tenants in total. Requires EntraPass V4.02 or higher. One option per unit |
| KTES-ACC-KIT | Accessory kit for KTES-125 unit |
| KTES-CAM-N | Covert color camera kit with bracket for KTES-125 unit |
| KTES-FBOX | Flush mounting box for flush installation with black trim ring for KTES-125 unit |
| KTES-HEAT | Heater kit for installation below 0°C (32°F) for KTES-125 unit |
| KTES-INDEX-F | Paper index illuminated with LED |
| KTES-INDEX-R | Paper Index black trim ring to be used with flush installation of KTES. Compatible with KTES-INDEX-F |
| KTES-MPLATE | Mounting plate for goose neck installation for KTES-125 unit |
| KTES-POSTAL | Postal lock bracket with switch for KTES-125 unit |
| KTES-PS-NA | Power supply 100V-240 VAC IN / 19 VDC, 3.15 Amps OUT and AC power cord, 3-pin model. Compatible with KTES-125US and KTES-125CDN only |

SYSTEM DIAGRAM





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

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.

Choosing Card & Reader Technology



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:

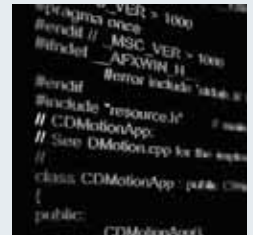
- 39-bit XSF (eXtended Secure Format) Available only with ioProx readers and cards
- 34-bit KSF (Kantech Secure Format) Available only with ShadowProx readers and cards and HID cards

BCD OUTPUT

Certain keypads will send data to the controller in a BCD format (Binary Code Decimal)

AMERICAN BANK ASSOCIATION (ABA) FORMAT

Barcode and magnetic stripe readers are usually sending data to the controller in a format called Clock and Data (also called ABA)



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.

Readers & Cards Comparison Charts

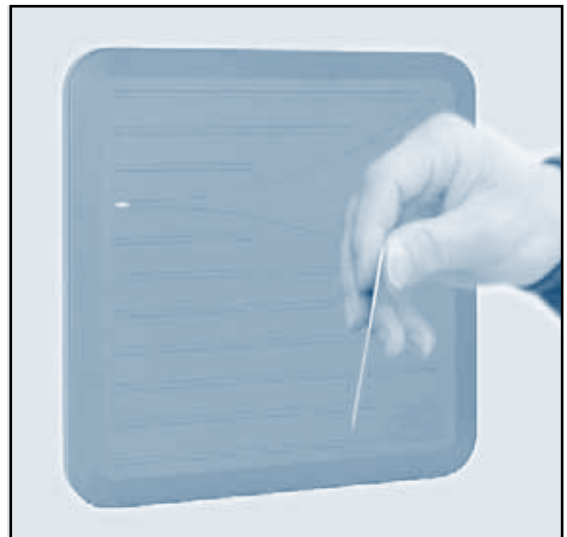
| Reader Comparison Chart | | | | | | | |
|---------------------------|---|--|--------------------------------------|---------------------|---------------------------|-----------------|---------------|
| Model | Description and Read Range | Dimensions | Power | Outdoor Suitability | Compatible Cards | Security Level | Compliance |
| Proximity | | | | | | | |
| ioProx Readers | | | | | | | |
| P225XSF/W26 | Mullion Mount Read Range up to 16.5 cm (6.5 in) | 11.4 x 4.4 x 2.1 cm (4.5 x 1.75 x 0.84 in) | Controller 4.5-14 VDC | Yes | ioProx | High | UL, FCC, & CE |
| P325XSF/W26 | Single Gang Box Size Read Range up to 20.5 cm (8 in) | 11.5 x 7.1 x 2.1 cm (4.55 x 2.8 x 0.84 in) | Controller 4.5-14 VDC | Yes | ioProx | High | UL, FCC, & CE |
| P225KPXSF/W26 | Mullion Mount with Integrated Keypad, Read Range up to 16.5 cm (6.5 in) | 11.4 x 4.4 x 2.1 cm (4.5 x 1.75 x 0.84 in) | Controller 4.5-14 VDC | Yes | ioProx | High | UL, FCC, & CE |
| P325KPXSF/W26 | Single Gang Box Size with Integrated Keypad Read Range up to 20.5 cm (8 in) | 11.5 x 7.1 x 2.1 cm (4.55 x 2.8 x 0.84 in) | Controller 4.5-14 VDC | Yes | ioProx | High | UL, FCC, & CE |
| P600 | Long Range Reader Read Range up to 73 cm (29 in) | 285 x 285 x 31.5 cm (11.25 x 11.25 x 1.25 in) | External 12-28 VDC | Yes | ioProx | High | UL, FCC, & CE |
| Multi-Tech Readers | | | | | | | |
| P345MTR/P345KPMTR | Integrated Keypad (P345KPMTR) Read Range up to 10.2 cm (4 in) | 11.1 x 8.4 x 2.9 cm (4.37 x 3.31 x 1.1 in) | Controller 9.4-16 VDC | Yes | ioProx/HID/ Smart Card | High | UL, FCC, & CE |
| HID Readers | | | | | | | |
| HID-PP6005B | Mullion Mount Read Range up to 7.6 cm (3 in) | 7.9 x 4.4 x 1.7 cm (3.1 x 1.7 x 0.66 in) | Controller 5-16 VDC | Yes | HID | High | UL, FCC, & CE |
| HID-MP5365 | Mullion Mount Read Range up to 14 cm (5.5 in) | 15.2 x 4.4 x 2.5 cm (6 x 1.7 x 1 in) | Controller 5-16 VDC | Yes | HID | High | UL, FCC, & CE |
| HID-PR5355 | Single Gang Box Size Read Range up to 20 cm (8 in) | 12.7 x 12.7 x 2.5 cm (5 x 5 x 1 in) | Controller 12-24 VDC | Yes | HID | High | UL, FCC, & CE |
| HID-PR5355KP | With Integrated Keypad Read Range up to 20 cm (8 in) | 12.7 x 12.7 x 2.5 cm (5 x 5 x 1 in) | Controller 12-24 VDC | Yes | HID | High | UL, FCC, & CE |
| HID-TL5395 | Single Gang Box Size Read Range up to 14 cm (5.5 in) | 11.9 x 7.6 x 1.7 cm (4.7 x 3 x 0.68 in) | Controller 5-16 VDC | Yes | HID | High | UL, FCC, & CE |
| HID-MX5375 | Long Range Reader Read Range up to 61 cm (24 in) | 30 x 30 x 2.5 cm (11.8 x 11.8 x 1 in) | Ext.14/28 VDC linear power supply | Yes | HID | High | UL, FCC, & CE |
| multiCLASS Readers | | | | | | | |
| HID-RP40/HID-RPK40 | Integrated Keypad (HID-RPK40) Read Range up to 10.2 cm (4 in) | 8.4 x 12.2 x 2.4 cm (3.3 x 4.8 x 0.1 in) | Controller 5-16 VDC | Yes | HID/ Smart Card | High | UL, FCC, & CE |
| ShadowProx Readers | | | | | | | |
| SH-Y1 | Mullion Mount Read Range up to 12.7 cm (5 in) | 11.4 x 4.3 x 2 cm (4.5 x 1.7 x 0.8 in) | Controller 5-16 VDC | Yes | ShadowProx | High | UL, FCC, & CE |
| SH-Y2 | Single Gang Box Size Read Range up to 12.7 cm (5 in) | 11.4 x 7.6 x 2 cm (4.5 x 3 x 0.8 in) | Controller 5-16 VDC | Yes | ShadowProx | High | UL, FCC, & CE |
| SH-Y4 | Single/Double Gang Box Size Read Range up to 30.5 cm (12 in) | 13 x 15.5 x 2.8 cm (5.1 x 6.1 x 1.1 in) | Controller 5-16 VDC | Yes | ShadowProx | High | UL, FCC, & CE |
| SH-X5 | Long Range Reader Read Range up to 66 cm (26 in) | 28.4 x 28.4 x 4.6 cm (11.2 x 11.2 x 1.8 in) | External 12-24 VDC | Yes | ShadowProx | High | UL, FCC, & CE |
| SH-2KP | With Integrated Keypad Read Range up to 10 cm (4 in) | 11.6 x 7.6 x 1.7 cm (4.5 x 3 x 0.7 in) | Controller 5-16 VDC | Yes | ShadowProx | High | UL, FCC, & CE |
| multiCLASS Readers | | | | | | | |
| SH-RP40/SH-RPK40 | Integrated Keypad (SH-RPK40) Read Range up to 10.2 cm (4 in) | 8.4 x 12.2 x 2.4 cm (3.3 x 4.8 x 0.1 in) | Controller 5-16 VDC | Yes | ShadowProx/ Smart Card | High | UL, FCC, & CE |
| ioProx Receiver | | | | | | | |
| P700WLS | Read Range up to 45 m (150 ft) with Power Dipole Antenna | 19.2 x 13 x 4.1 cm (7.56 x 5.13 x 1.63 in) | Controller 12 or 24 VDC | Yes | ioProx Transmitters | Medium/ High | FCC |
| Polaris Mag Stripe | | | | | | | |
| POL-2 | Reader Only | 15.8 x 4.5 x 3.8 cm (6.24 x 1.75 x 1.48 in) | Controller 5 VDC | Yes | Polaris | Medium | FCC & CE |
| POL-2KP | Reader with Integrated Keypad | 15.8 x 4.5 x 3.8 cm (6.24 x 1.75 x 1.48 in) | Controller 5 VDC | Yes | Polaris | Medium | FCC & CE |
| Bar Code | | | | | | | |
| BC-301 | Heavy Duty Construction | 4.3 x 12.8 x 3.9 cm (1.7 x 5.05 x 1.54 in) | Controller 5 VDC | Yes | Various | Low | FCC & CE |
| Wiegand | | | | | | | |
| WEI-R20 | Swipe Model | 5.8 x 13.5 x 4.3 cm (2.3 x 5.3 x 1.7 in) | Controller 5-12 VDC | Yes | Wiegand | Low/ Medium | UL & CE |
| WEI-R30 | Insertion Model | 3 x 8.1 x 7.6 cm (1.18 x 3.18 x 3 in) | Controller 5-12 VDC | Yes | Wiegand | Low/ Medium | UL & CE |

Readers & Cards Comparison Charts

| Card Comparison Chart | | | | | | |
|---|------------------------------|--|--|--------------------------------------|---------------|---------------------------------|
| Compatible Readers | Model Number | Product Type | Dimensions | Direct Image Printing | Slot Punch | Additional Reader Compatibility |
| Proximity | | | | | | |
| ioProx Readers P225, P225KP, P325, P325KP and P600 Multi-Tech Readers P345MTR/P345KPMTR | P10SHL | Standard Card | 8.5 x 5.4 x 0.1 cm (3.38 x 2.13 x 0.07 in) | with PVC Overlay | Vertical | None |
| | P20DYE | Thin Card | 8.5 x 5.4 x 0.07 cm (3.38 x 2.13 x 0.03 in) | Yes (both sides) | No | BC-301* |
| | P30DMG | Thin Card with Unencoded Mag Stripe | 8.5 x 5.4 x 0.07 cm (3.38 x 2.13 x 0.03 in) | Yes (both sides) | No | BC-301*/POL-2/POL-2KP |
| | P40KEY | Keytag | 5.0 x 2.0 x 0.5 cm (1.96 x 0.79 x 0.19 in) | No | Key Ring Hole | None |
| | P50TAG | Adhesive Tag | 2.5 cm diameter (0.98 in diameter) | No | No | None |
| HID Readers HID-PP6005B/MP5365 HID-PR5355/PR5355KP HID-TL5395/MX5375 multiCLASS Readers HID-RP40/RPK40 | HID-C1326KSF | Standard Card | 8.5 x 5.4 x 0.2 cm (3.36 x 2.13 x 0.07 in) | with PVC Overlay | Vertical | None |
| | HID-C1336KSF HID-C1336K/G | Thin Card with Unencoded Mag Stripe | 8.5 x 5.4 x 0.08 cm (3.38 x 2.13 x 0.03 in) | Yes (front side) Yes (both sides) | No | BC-301*/POL-2/POL-2KP |
| | HID-C1346KSF | Keytag | 4.8 x 2.3 x 0.4 cm (1.90 x 0.90 x 0.16 in) | No | Key Ring Hole | None |
| | HID-C1386KSF HID-C1386K/G | Thin Card | 8.6 x 5.4 x 0.08 cm (3.38 x 2.13 x 0.03 in) | Yes (front side) Yes (both sides) | No | BC-301* |
| ShadowProx Readers SH-Y1, SH-Y2, SH-Y4, SH-2KP and SH-X5 multiCLASS Readers SH-RP40 and SH-RPK40 | SH-C1 | Standard Card | 8.6 x 5.4 x 0.2 cm (3.38 x 2.13 x 0.07 in) | with PVC Overlay | Vertical | None |
| | SH-CMG3/GG | Thin Card | 8.6 x 5.4 x 0.08 cm (3.38 x 2.13 x 0.03 in) | Yes (both sides) | No | BC-301* |
| | SH-CMG4/GG | Thin Card with Unencoded Mag Stripe | 8.6 x 5.4 x 0.08 cm (3.38 x 2.13 x 0.03 in) | Yes (both sides) | No | BC-301*/POL-2/POL-2KP |
| | SH-K1 | Keytag | 4.4 x 3.04 x 0.5 cm (1.73 x 1.20 x 0.22 in) | No | Key Ring Hole | None |
| ioProx Receiver | | | | | | |
| P700WLS | P72WLS | 2-button Transmitter | 7.3 x 3.9 x 1.6 cm (2.88 x 1.5 x 0.63 in) | No | Key Ring Hole | None |
| | P72WLS-TAG | 2-button Transmitter with ioProx Tag | 7.3 x 3.8 x 1.6 cm (2.88 x 1.5 x 0.63 in) | No | Key Ring Hole | ioProx |
| | P74WLS | 4-button Transmitter | 7.3 x 3.8 x 1.6 cm (2.88 x 1.5 x 0.63 in) | No | Key Ring Hole | None |
| | P74WLS-TAG | 4-button Transmitter with ioProx Tag | 7.3 x 3.8 x 1.6 cm (2.88 x 1.5 x 0.63 in) | No | Key Ring Hole | ioProx |
| Polaris Mag Stripe | | | | | | |
| POL-2, POL-2KP and POL-2ATM | POL-C1CN | Thin Card with Encoded Mag Stripe and Bar Code | 8.6 x 5.4 x 0.08 cm (3.38 x 2.13 x 0.03 in) | No | No | BC-301 |
| | POL-C5CN | Thin Card with Encoded Mag Stripe and Bar Code | 8.6 x 5.4 x 0.08 cm (3.38 x 2.13 x 0.03 in) | Yes (front side) | No | BC-301 |
| | POL-C6CN | Thin Card with Encoded Mag Stripe | 8.6 x 5.4 x 0.08 cm (3.38 x 2.13 x 0.03 in) | Yes (both sides) | No | BC-301* |
| Wiegand | | | | | | |
| WEI-R20/WEI-R30 | WEI-C11SN | Thin Card | 8.6 x 5.4 x 0.09 cm (3.38 x 2.13 x 0.04 in) | No | No | None |

* Bar code can be printed.

ioProx Proximity Readers & Cards



ioProx readers are compatible with both XSF and 26-bit Wiegand formats and have an integrated piezo buzzer and bicolor LED to indicate the system/reader status.

ioProx Proximity Readers

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.

ioProx Proximity Readers & Cards

FEATURES

- 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

MODEL NUMBERS



P225XSF (XSF format) and **P225W26** (26-bit Wiegand format)
ioProx reader, mullion size, up to 16.5 cm (6.5 in) read range, black



P225KPXSF (XSF format) and **P225KPW26** (26-bit Wiegand format)
ioProx reader, mullion size, up to 16.5 cm (6.5 in) read range, with integrated keypad, black



P325XSF (XSF format) and **P325W26** (26-bit Wiegand format)
ioProx reader, single-gang size, up to 20.5 cm (8 in) read range, black



P325KPXSF (XSF format) and **P325KPW26** (26-bit Wiegand format)
ioProx reader, XSF, single-gang size, up to 20.5 cm (8 in) read range, with integrated keypad, black



P600
ioProx reader, long range, XSF/26-bit Wiegand selectable, up to 73 cm (29 in) read range, black

ACCESSORIES

- P225-COVER** ioProx reader cover, for P225XSF or P225W26, black
- P225KP-COVER** ioProx reader cover, for P225KPXSF or P225KPW26, black
- P325-COVER** ioProx reader cover, for P325XSF or P325KPW26, black
- P325KP-COVER** ioProx reader cover, for P325KPXSF or P325KPW26, black

ioProx Proximity Readers & Cards

P10SHL: STANDARD SIZE CARD



The P10SHL is a clamshell style, non-printable card that is dual encoded in both Kantech eXtended Secure Format (XSF), and 26-bit Wiegand format (W26).

Constructed of white ABS and PVC, the card is strong, flexible and resistant to cracking and breaking.

P20DYE: THIN CREDIT CARD SIZE



This thin prox card is made of a PVC laminate and is glossy white on both sides. Both sides are suitable for dye sub printing. There are also marks for a vertical and horizontal slot punch.

The card is dual encoded in both Kantech eXtended Secure Format (XSF), and 26-bit Wiegand format (W26).

P30DMG: THIN CREDIT CARD SIZE



This thin prox card is made of a PVC laminate and also has a magnetic stripe (not encoded). It is glossy white on both sides which are both suitable for dye sub printing.

There are also marks for a vertical and horizontal slot punch. The card is dual encoded in both Kantech eXtended Secure Format (XSF), and 26-bit Wiegand format (W26).

P40KEY: KEYTAG



The ioProx proximity keytag is resistant to cracking and breaking and is small enough to fit on a keychain.

The keytag is dual encoded in both Kantech eXtended Secure Format (XSF) and 26-bit Wiegand format (W26).

P50TAG: SELF-ADHESIVE ROUND TAG



The ioProx self-adhesive tag is less than 2.5 cm (1 in) in diameter and will adhere to any non-metallic surface. It is ideal for upgrading from Wiegand or magnetic stripe technologies.

The tag can be applied to any badge to turn it into an ioProx proximity card. The tag is dual encoded in both Kantech eXtended Secure Format (XSF), and 26-bit Wiegand format (W26).

Multi-Technology Proximity/Smart Card Readers



Kantech Multi-Technology/Smart Card Readers provide a single reader solution for multiple technologies including ioProx.

Multi-Technology Readers

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.

FEATURES

- 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
- Optional keypad for two-factor verification
- Download new functionality or enhancements for a future-proof solution
- Built-in tamper switch provides secure installation

CARD TECHNOLOGIES SUPPORTED

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

MODEL NUMBERS



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



P345KPMTR Multi-Technology reader with ioProx support, integrated keypad, smart card & proximity, up to 10.2 cm (4 in) read range depending on technology of card, single-gang, black

ioProx Proximity Receiver and Transmitters



Parking lots demand special considerations when access control is required. With extended read range and remote keytag transmitters, ioProx receivers provide such areas with the same level of security as an indoor installation.

ioProx Receiver & Transmitters

The ioProx receiver and transmitter solution extends the capabilities of the Kantech ioProx card reader line by making it easier for customers to gain access to secured parking facilities. By providing a read range of up to 150 feet, the Kantech ioProx solution extends the powerful ioProx card reader system from buildings to parking facilities and anywhere else a distance exists between the cardholder and point of entry. This means cardholders no longer have to get out of their cars to open a secured parking gate the way they would with traditional access control systems that have more limited read ranges. Instead, they simply press the button on the ioProx transmitter, which is small enough to fit on their key chain and functions similarly to a garage door opener. The ioProx receiver uses radio-frequency (RF) technology secured with encrypted coding to prevent code grabbers from intercepting the system. The transmitter is available with an optional integrated ioProx tag, which equips it to also work with the ioProx card reader, making it an ideal solution for customers who need to access both a parking facility and an office building without searching for multiple access cards. The enhanced capabilities do not compromise security. The ioProx receiver can be programmed for either Wiegand format, which is compatible with most door controllers on the market, or for Kantech eXtended Secure Format (XSF) which, when used with one of Kantech's door controllers, provides enhanced security with an additional measure of protection against ID access code duplication.

ioProx Proximity Receiver and Transmitters

FEATURES

- ioProx selectable 4-channel receiver
- Read range up to 45 m (150 ft) - ideal for 2-way gate, parking and garage entrances
- Encrypted code ensures the highest level of security
- Kantech eXtended Secure Format (XSF) or 26-bit Wiegand format-selectable
- 2 and 4-button transmitters
- Model available with integrated ioProx tag

MODEL NUMBERS



P700WLS ioProx receiver, 4-channel, XSF/26-bit Wiegand selectable, indoor/outdoor use, including one standard whip antenna (P-WLS-A1)



P72WLS ioProx 2-button transmitter



P72WLS-TAG ioProx 2-button transmitter with integrated ioProx tag, compatible with ioProx readers



P74WLS ioProx 4-button transmitter



P74WLS-TAG ioProx 4-button transmitter with integrated ioProx tag, compatible with ioProx readers

ACCESSORIES



P-WLS-A1 Standard whip antenna for P700WLS



P-WLS-A2 Power dipole antenna for P700WLS

HID Proximity Readers & Cards



HID Proximity Readers are used in a variety of access control applications including employee time and attendance.



HID Proximity Readers & Cards

Featuring 125 kHz proximity technology, HID proximity readers are robust, affordable and seamlessly integrate with standard access control systems. Sealed in a rugged, weatherized polycarbonate enclosure, the readers are designed to withstand harsh environments, providing reliable performance and a high degree of vandal resistance. HID readers recognize over 16.7 million unique codes using Kantech's KSF cards (Kantech Secure Format) to provide increased security and absolute guarantee of no duplication of cards. In addition to the 125 kHz HID proximity readers, Kantech offers the ultimate migration tool - the multiCLASS reader. MultiCLASS multi-technology card readers combine 125 kHz proximity technology and iCLASS 13.56 MHz contactless smart card and reader technologies into a single reader. They are designed for customers who are upgrading their current card system from HID Proximity to HID iCLASS credentials or cards. Both "old" and "new" card formats can be accommodated which allows for a smoother transition.

HID Proximity Readers & Cards

FEATURES

- 26-bit Wiegand protocol interface, compatible with all standard access control systems
- Consistent read range characteristics
- Integrated piezo and bi-color LED
- Low power consumption
- 125 kHz transmit frequency
- Attractive styling

MODEL NUMBERS



HID-PP6005B HID ProxPoint Plus reader, mullion size KSF/26-bit Wiegand, up to 7.6 cm (3 in) read range, gray



HID-MP5365 HID MiniProx reader, mullion size, KSF/26-bit Wiegand, up to 14 cm (5.5 in) read range, gray



HID-PR5355 HID ProxPro reader, wall switch size, KSF/26-bit Wiegand, up to 20.3 cm (8 in) read range, gray



HID-PR5355KP HID ProxPro reader, wall switch size, KSF/26-bit Wiegand, up to 20.3 cm (8 in) read range, with integrated keypad, gray



HID-TL5395BL (Black), **HID-TL5395BE** (Beige) and **HID-TL5395WH** (White)
HID ThinLine II reader, wall switch size, KSF/26-bit Wiegand, up to 14 cm (5.5 in) read range



HID-MX5375 HID MaxiProx reader, long range, KSF/26-bit Wiegand, up to 61 cm (24 in) read range, gray



HID-RP40 HID multiCLASS reader, smart card and HID proximity (also HID-KSF), single-gang size, black



HID-RPK40 HID multiCLASS reader with integrated keypad, smart card and HID proximity (also HID-KSF), single-gang size, black

HID Proximity Readers & Cards

HID-C1326KSF: STANDARD SIZE CARD



The ProxCard II is a cost-effective solution to proximity access control, with universal compatibility with all HID proximity readers. The ProxCard II provides durable packaging and consistent read range. KSF format.

The card can accept direct-print adhesive backed labels for use as a Photo ID card.

HID-C1336KSF AND HID-C1336K/G: THIN CREDIT CARD SIZE



The DuoProx II multiple technology proximity card offers proximity, magnetic stripe and photo identification technologies on a single thin (.030" nominal thickness) access control card. It features a graphics quality surface optimized for Photo ID printing. KSF format.

Model HID-C1336KSF has a glossy front for dye-sub printing. Model HID-C1336K/G has a glossy front and back for dye-sub printing.

HID-C1386KSF AND HID-C1386K/G: THIN CREDIT CARD SIZE



The ISOProx II Card offers proximity technology with photo identification capability on a single thin (0.30" nominal thickness) ISO 7810 compliant card. The card features a graphics quality surface optimized for Photo ID printing. KSF format.

Model HID-C1386KSF has a glossy front for dye-sub printing. Model HID-C1386K/G has a glossy front and back for dye-sub printing.

HID-C1346KSF: KEYTAG



The ProxKey II is a proximity keyfob offering HID proximity technology in a convenient pocket size device. It easily attaches to a key ring, badge clip or lanyard. KSF format.

The ProxKey II is suited for use in access control applications where a Photo ID is not required.

ShadowProx Proximity Readers & Cards



The ShadowProx proximity readers have been designed in formats and finishes suitable for installation in the most prominent locations. The single piece construction allows faster installation.

ShadowProx Proximity Readers & Cards

ShadowProx Proximity Readers deliver outstanding and consistent performance with intelligent programming technology and stylish bezel designs. ShadowProx readers are available in an arch style and offer different mounting options. These readers are mountable on door mullions, on walls, on a single or double gang electrical box, as well as any flat surface. All ShadowProx 125 kHz Proximity Readers feature an added level of access control system security through a verification process at the reader that screens out unauthorized cards prior to sending card data to the host system. These readers use Kantech's KSF cards (Kantech Secure Format) which provide increased security and absolute guarantee of no duplication of cards.

In addition to the 125 kHz HID proximity readers, Kantech offers the ultimate migration tool—the multiCLASS reader. MultiCLASS multi-technology card readers combine 125 kHz proximity technology and iCLASS 13.56 MHz contactless smart card and reader technologies into a single reader. They are designed for customers who are upgrading their current card system from ShadowProx Proximity to ShadowProx iCLASS credentials or cards. Both “old” and “new” card formats can be accommodated which allows for a smoother transition.

ShadowProx Proximity Readers & Cards

FEATURES

- Recognizes over 16.7 million unique codes using Kantech's KSF cards (Kantech Secure Format), which provide complete security and an absolute guarantee against card duplication
- Compatible with all Kantech systems
- Integrated piezo and bi-color LED
- Weatherproof design for either indoor or outdoor applications

MODEL NUMBERS



SH-Y1BLK (Black) and **SH-Y1BEI** (Beige)
ShadowProx Y1 reader, mullion size, KSF, up to 12.7 cm (5 in) read range



SH-Y2BLK (Black) and **SH-Y2BEI** (Beige)
ShadowProx Y2 reader, wall switch size, KSF, up to 12.7 cm (5 in) read range



SH-Y4BLK
ShadowProx Y4 reader, single/double gang size, KSF, up to 30.5 cm (12 in) read range, black



SH-2KPBLK (Black) and **SH-2KP** (Beige)
ShadowProx 2 reader, wall switch size, KSF, up to 10 cm (4 in) read range, with integrated keypad



SH-X5
ShadowProx X5 reader, long range, KSF, up to 71 cm (28 in) read range, black



SH-RP40
ShadowProx multiCLASS reader, smartcard and ShadowProx proximity, single-gang size, black



SH-RPK40
ShadowProx multiCLASS reader with integrated keypad, smartcard and ShadowProx proximity, single-gang size, black

ACCESSORIES

- FPZ-3511A** Cover for ShadowProx Reader SH-Y1, black
- FPZ-3517A** Cover for ShadowProx Reader SH-Y1, beige
- FPZ-3521A** Cover for ShadowProx Reader SH-Y2, black
- FPZ-3527A** Cover for ShadowProx Reader for SH-Y2, beige
- ASR620-BEZEL** Cover for ShadowProx Reader SH-X5, black

ShadowProx Proximity Readers & Cards

SH-C1: STANDARD SIZE CARD



The standard shell card features beveled edges, and can accept photo-flap and direct-print adhesive-backed ID badge overlays. KSF format.

The durable ABS card construction makes it a good choice for warehouse, factory and university applications.

SH-CMG3/GG: THIN CREDIT CARD SIZE



This card is just 0.76 mm (.03 in) thick and integrates proximity technology within a card body designed to withstand the most extreme applications. KSF format.

Unique composite formulation enhances the structural integrity of the card. It is also ideal for badging - both sides are printable.

SH-CMG4/GG: THIN CREDIT CARD SIZE



Featuring a ready to encode magnetic stripe, this ISO 7810 compliant card has a nominal thickness of 0.76 mm (.03 in) and has the ability to contain multiple ID technologies in a single credential. The magnetic stripe can be used with other systems, such as cafeteria vending, copy machines and fuel dispensing. KSF format.

Digital photographs and graphics can be printed directly over the front and back surfaces by using a dye-sublimation printer. Bar codes can be imaged onto the card for systems tracking, time and attendance or job costing.

SH-K1: KEYTAG



The keytag has a contemporary design that enables it to be easily attached to a key, badge clip, or badge lanyard. KSF format.

It is ideally suited for a variety of applications and environments including locker rooms, health clubs, apartment buildings as well as businesses where photo IDs are not required.

Biometric Readers



Biometric readers are used to determine a person's identity by detecting and matching the person's physical features, such as fingerprints or hand geometry to a database.

Biometric Readers

Biometrics are physical and behavioral characteristics unique to an individual such as a finger or palm print, iris pattern or facial image. Each individual has unique biometric data; and so solutions based on biometrics offer a better and more accurate means of ensuring the integrity of an access control system than cards alone. Biometric based solutions quickly capture patterns from physical characteristics of individuals and then match these patterns against records in a database. Many organizations are turning to biometrics to enhance both the security and convenience of their existing systems.

Common applications of biometrics include:

- Airport security (baggage handling areas)
- Government (military bases)
- Financial Services (access to vaults/safety deposit boxes)
- Casino Gaming (cash counting rooms)
- Campuses (science labs/IT server rooms)

MODEL NUMBERS



The Bioscrypt fingerprint reader (for indoor use only) provides enhanced security and eliminates security breaches caused by lost or stolen access cards. This reader can be used in a combined card plus fingerprint mode via an integrated ioProx proximity card reader. It takes less than a second for the reader to confirm or deny access based on a database of fingerprints/cards from authorized users. The reader performs enrolment, identification and template storage for up to 4000 fingerprints all within a small ergonomic case.

VPRX-IO-XSF (with integrated XSF format ioProx reader)

VPRX-IO-W26 (with integrated 26-bit Wiegand format ioProx reader)



Hand recognition geometry uses the shape of the hand to identify/verify the person. Both the HK-2 and the HK-CR (both models for indoor use only) use field-proven hand geometry technology that maps and verifies the size and shape of a person's hand all in less than one second. Both models requires a 16 VAC/DC, 40 VA transformer. These solutions are perfect for one door or an entire facility.

Because your hand is your card, the HK-2 allows access only to authorized people with the convenience of never worrying about keeping track of a card or a key. The HK-2's 26-bit Wiegand output card reader emulation mode makes adding it to existing access control systems fast and easy. The HK-2 has a standard 512 user memory.

The HK-CR is designed to work in conjunction with card based access control systems. This makes adding biometric security to access points fast, simple and seamless for both new and existing systems. Can store up to 512 cardholder templates in the unit, protecting cardholder privacy and eliminating the need to store and update cardholder databases in individual readers. The storage of the template on the card allows the reader to support an unlimited number of cardholders.

HK-2 Stand-Alone Hand Recognition Reader, 26-bit Wiegand format, 512 users

HK-CR Hand Recognition Reader, 26-bit Wiegand format, 512 users

ACCESSORIES

BB-200 HK-2 and HK-CR operational battery backup

EM-801 HK-2 and HK-CR memory expansion, up to 9,728 users

EM-803 HK-2 and HK-CR memory expansion up to 32,512 users

PS-110 HK-2 and HK-CR 110 VAC power supply

Polaris Magnetic Stripe Readers and Cards



Polaris magnetic stripe readers are simple solutions for controlling door access. The reader can be downloaded with employee names and their respective access rights.

Polaris Magnetic Stripe Readers & Cards

The Polaris-2 series provides the right combination of quality and reliability. A card can be swiped through the reader in both directions and the reader's microprocessor automatically detects and rejects read errors. The reader has four different configurable output modes (26-bit Wiegand, 34-bit Wiegand, ABA-Clock & Data and ABA-Wiegand), so that readers can be installed on existing systems. The different output modes are obtained by connecting the proper wires during installation, to program the reader. The mode can be changed by simply powering the reader down and rewiring it for the new mode. The "*" push-button on the keypad of the POL-2KP is a dry contact with a 50 mA power rating. It can be connected to an alarm panel or to an intercom's door call input, for example.

FEATURES

- Integrated membrane keypad (POL-2KP)
- Four easily configurable output modes
- Built-in tamper switch, piezo buzzer and bi-color LED
- Weatherproof design for either indoor or outdoor applications
- Small size provides mullion mount, wall mount or single gang electrical box mounting plate
- High endurance head assembly provides over one million reads
- Tough polycarbonate case
- UV protectant prevents discoloring

MODEL NUMBERS



POL-2 Polaris-2 magnetic stripe reader, indoor/ outdoor use
POL-25M Polaris-2 magnetic stripe reader, indoor/ outdoor use, with 5 m (16 ft) cable



POL-2KP Polaris-2 magnetic stripe reader, with integrated keypad, indoor/ outdoor use
POL-2KP-5M Polaris-2 magnetic stripe reader, with integrated keypad, indoor/ outdoor use, with 5 m (16 ft) cable



POL-2ATM Polaris ATM card reader kit, includes: POL-2 reader and programmable timer (not CE approved)

Polaris Magnetic Stripe Readers and Cards

POL-C1CN: CARD



Pre-programmed with card number imprinted on the back, this card also includes a bar code.

POL-C5CN: CARD



This card comes pre-programmed with card number imprinted on back of card (also includes bar code). The glossy front surface can be used for Dye-Sub printing.

POL-C6CN: CARD



This card comes pre-programmed with card number imprinted on back of card. Glossy front surface can be used for Dye-Sub printing.

Other Readers & Keypads



Kantech access control solutions provide an economical solution for security-conscious companies faced with the constant flux of personnel changes.

Other Readers & Keypads

In addition to sophisticated readers, Kantech also offers more simple access control solutions such as those below.

BAR CODE READER



The BC-301 bar code reader is fully weatherproof, and its tough shell is made of carbon filled polycarbonate for extra durability. The BC-301 reads the most common bar code formats, including Code 39, Interleaved 2 of 5, UPC/EAN, Codabar (use POL-C1CN Polaris-2 magnetic stripe cards or others).

- BC-301** Bar code reader
- BC-MPL** Standard US and Canada electrical box mounting plate for BC-301, black

WIEGAND READERS AND CARDS



These are high impact, vandal and weather resistant Wiegand readers that are used in applications throughout the world. They each have a bi-color status LED and are immune to external magnetic fields and RF signals. These readers are compatible with Kantech door controllers.

- WEI-R20** Wiegand swipe reader
- WEI-R30** Wiegand insertion reader
- WEI-C11SN** 26-bit Wiegand card compatible with WEI-R20 and WEI-R30 Wiegand readers

KEYPADS



These keypads are constructed of stainless steel and feature a one-piece rugged, compact and vandal resistant design. The keypad contains no moving parts and uses a proprietary piezo electric technology ensuring that the 12 digit keypad will perform reliably in even the most demanding environments. For maximum flexibility two LEDs (red and green) are user programmable and an annunciator beeps with each key press.

- KP-2500** Keypad with BCD output
- ES-KTP/103SN** Keypad with 26-bit Wiegand output



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



The T-Rex is a sophisticated and cost-effective request to exit device for all access control applications and an alternative to installing an exit button.

T.Rex Request to Exit Detector

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.

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

MODEL NUMBERS

| | |
|---------------------|---|
| T.REX-LT | T.Rex request to exit detector, with tamper and timer, white |
| TREX-LT2 | T.Rex request to exit detector, with tamper and timer and 2 relays, white |
| T.REX-XL | T.Rex request to exit detector, with tamper, piezo and timer, white |
| T.REX-XLBLK | T.Rex request to exit detector, with tamper, piezo and timer, black |
| TREX-XL2 | T.Rex request to exit detector, with tamper, piezo, timer and 2 relays, white |
| T.REX-XL2BLK | T.Rex request to exit detector, with tamper, piezo, timer and 2 relays, black |

ACCESSORIES

| | |
|--------------------|---|
| T.REX-PLATE | T.Rex request to exit detector, back plate, white |
|--------------------|---|

Exit Control Devices: PB-EXIT Control Button



The exit button can replace an exit detector on controlled exit doors.

PB-EXIT Control Button

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.

FEATURES

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

MODEL NUMBERS

PB-EXIT Push button exit control, large size green button

Electric Strikes



The latch of a lock is controlled by an electric strike plate combining a standard lock with an electronic method of access and exit.

Electric Strikes

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. The strikes are listed under UL1034, ANSI/BHMA E09321 and New York City MEA 404-91-M.

FEATURES

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

MODEL NUMBERS

DS-4114-05 Electric door strike, 12 VDC

DS-4114-08 Electric door strike, 24 VDC

Electromagnetic Locks



An electromagnetic lock is fitted to the head of the door frame and a strong magnetic force is used to keep the door locked.

Electromagnetic Locks

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.

FEATURES

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

MODEL NUMBERS

- ML831C28** Electromagnetic lock, 12-24 VDC
- ML831SCSC28** Electromagnetic lock, 12-24 VDC, with supervisory switch

Access Control Accessories

Kantech offers network communication devices, modems, converters, cable kits, and more. Everything you need to secure entry and exit at your facilities.



Network Communication Devices

IP LINK NETWORK INTERFACE



- Powerful solution for connecting KT-100 and KT-300 door controllers to existing network infrastructure
- Secure communication via 128-bit AES encryption
- Configured using either a static or dynamic IP address

- Supports up to 512 IP Links per EntraPass Gateway for a cost-effective solution to managing multiple remote sites
- Communicates over the network only as required, keeping network traffic to a minimum
- Plug and play setup makes it quick and easy to use with EntraPass access control software
- Supports up to 32 door controllers per device
- Compatible with version 4.0 and higher of: EntraPass Special, Corporate and Global Editions (Global Edition with Corporate Gateway only)

KT-IP IP Link module with self enclosure and accessories (ground wire, plastic stand off, cable/connector). Ethernet to RS-232, requires 12 VDC.

KT-IP-PCB IP Link module PCB only with accessories (ground wire, plastic stand off, cable/connector). Ethernet to RS-232, requires 12 VDC.

KT-IP-CAB Metal cabinet for KT-IP-PCB

USB-485 COMMUNICATION INTERFACE



- Converts USB to RS-485
- Supports up to 32 Kantech controllers
- Uses unshielded twisted pair (UTP) communication cable
- Supports Windows 2000, XP, Windows Vista and Windows 7 Pro

- Powered by USB port
- Extends communication up to 1,200 m (4,000 ft)

USB-485 USB to RS-485 communication interface

VC-485 MULTI-FUNCTION COMMUNICATION INTERFACE



- Converts RS-232 to RS-485
- Supports up to 32 Kantech controllers
- Uses UTP cable
- Powered by 5 VDC or 12 VDC
- Extends communication up to 1,200 m (4,000 ft)
- Extends communication up to 5,486 m (18,000 ft) by connecting two together

- Two VC-485s may be connected back-to-back to extend the RS-485 communication bus

VC-485 RS-232 to RS-485 multi-function communication interface

DIAL-UP MODEMS

HOST SITE MODEM

- Dial-up external modem for host site
- CBLK-12 cable kit/adaptor set included (RS-232 from PC to host modem)

REMOTE SITE MODEM

- Dial-up external modem for remote site
- CBLK-11 cable kit/adaptor set included (RS-232 from remote modem to controller)

DU-MODEM-HOS Dial-up external modem for host site with CBLK-12 cable (North America only)

DU-MODEM-RS Dial-up external modem for remote site with CBLK-11 cable (North America only)

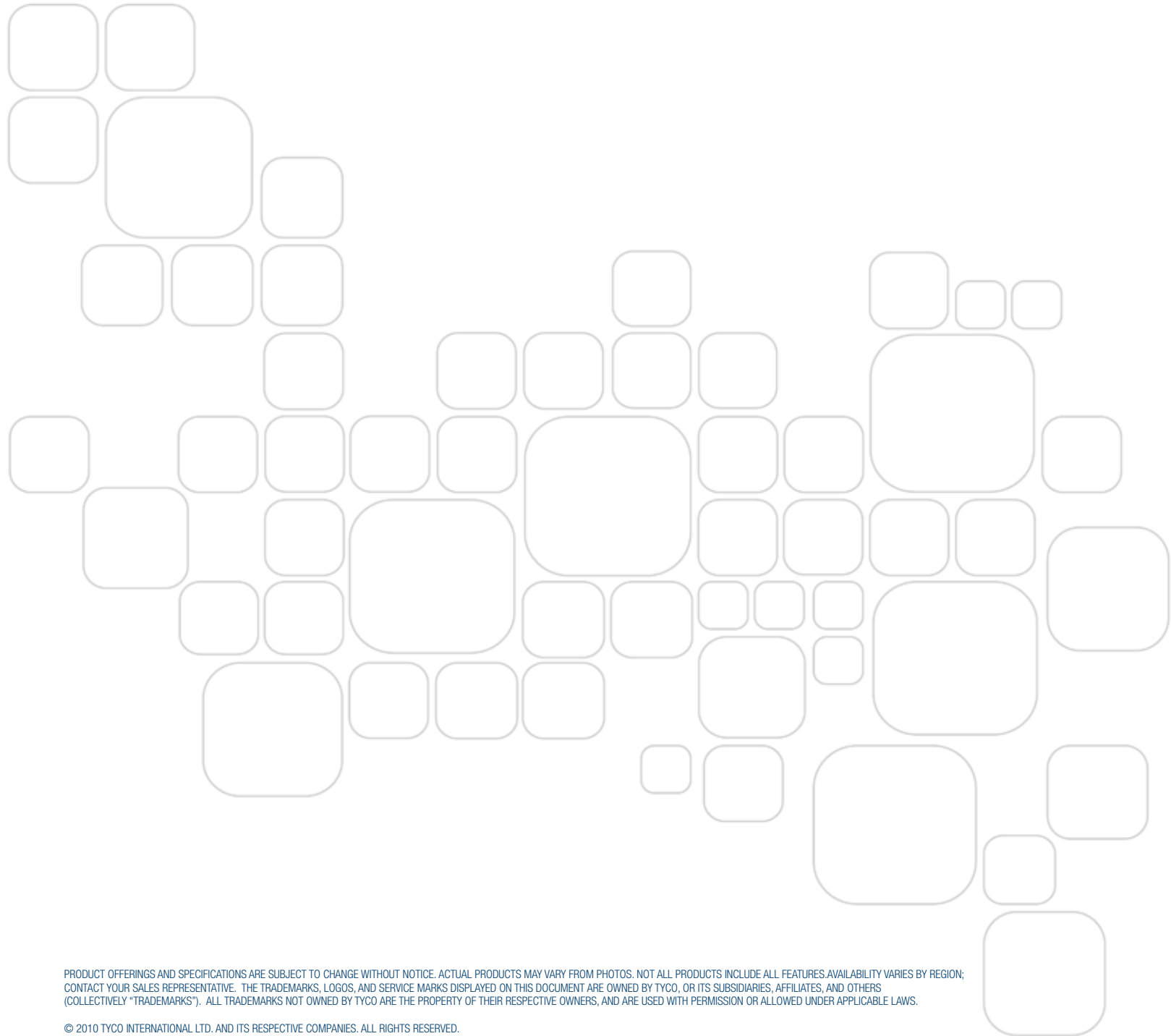
Cables

| Cable Table | | | | |
|--|--|---------------|--------------|--|
| Model | Max Length | Belden Ref. # | Alpha Ref. # | Description |
| Readers and Keypads | | | | |
| ioProx Readers P225, P225KP, P325 & P325KP | 300 m (1,000 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 & 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 & 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-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 | 600 m (2,000 ft) | 9794 | 1204 | 4 conductors, solid, #22AWG, unshielded |
| SPI (Serial Peripheral Interface) | | | | |
| KT-MOD-INP16, KT-MOD-OUT16, KT-MOD-REL8 | SPI cable 40.6 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-100/200/300/400/KTES to 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-100/200/300/400 to 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 | | | | |
| AC Transformers to Kantech Products | 8 m (25 ft) | 9571 | 6501 | 2 conductors, solid, #18AWG, unshielded |
| Door Lock Power from KT-100/200/300/400 | 150 m (500 ft) | 9571 | 6501 | 2 conductors, solid, #18AWG, unshielded |
| KT-100/200/300/400 & KT-NCC Grounding | 8 m (25 ft) | N/A | N/A | 1 conductor, solid, #18AWG |

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