KANTECH
A Tyco International Company

Expansion Kits

Starter Kit

Access Control
Starter and Expansion Kits

Features That Make a Difference:

- Everything you need to install or expand a complete access control system
- Easy to install and easy to use
- Expand your access control system in two-door increments using the Access Control Expansion Kit
- Compatible with EntraPass Special Edition, Corporate Edition,and Global Edition
- Expansion Kit with IP Link (KT-IP) provides communication over the network
- Expansion Kit with IP Link (KT-IP) is compatible with EntraPass Special, Corporate, and Global Editions (Global Edition with Corporate Gateway only)[1]
- Expansion Kit with modem enables EntraPass to connect to remote sites (RS-232 from remote modem to controller)

Kantech Access Control Starter and Expansion Kits offer a comprehensive solution for growing businesses that are seeking an easy-to-use and highly reliable access control system.

The all-inclusive Starter Kit provides everything needed to create a complete access control system. From the powerful EntraPass software and KT-300 door controller to all of the peripherals in between, the Starter Kit makes sure nothing is left to chance.

Similarly, the Expansion Kit includes everything required to expand an existing system. In two-door increments, the Expansion Kit keeps up with even the fastest growing business.

IP Link
The IP Link uses 128-bit AES encryption to communicate with EntraPass, which ensures communication when used over the Internet. IP Link manages polling of door controllers and communicates with EntraPass Gateway only when an event has occurred. This significantly reduces the amount of bandwidth required to manage your access control system over a network. Up to 512 IP Links can be supported per EntraPass Gateway, and IP Link supports up to 32 door controllers.

The Expansion Kit with IP Link makes it easy and affordable to manage your Kantech access control system over a network. The IP Link leverages Kantech's robust portfolio of KT-controllers to offer a powerful security solution for any size application.

The Expansion Kit with Modem is ideal for applications where an "always-on" connection is not required, or where a network is inexistent.

EntraPass Special Edition Software
EntraPass Special Edition software, included in the Starter Kit, is an expandable single workstation solution that is easy to use. Please see the EntraPass Special Edition data sheet for more information.

KT-300 Door Controller
KT-300 is a powerful and scalable door controller that manages two doors or can be easily linked to a network controlling thousands of doors. Additionally, KT-300 supports expansion modules to add inputs, outputs, and an LCD for time and attendance functions.

The P225XSF ioProx readers are attractive, compact, and vandal resistant. Each reader is also encapsulated in epoxy potting which protects them from the elements. The innovative 'snap-and-lock' terminal blocks allow for easy wiring saving time and money. The eXtended Secure Format (XSF) increases security and protects against card duplication. Each reader is outfitted with an integrated piezo buzzer and bicolor LED and has a read range of up to 16.5 cm (6.5 in).

ioProx Keytags
The Starter Kit contains five P40KEY keytags that are small enough to fit on a key chain and are resistant to cracking and breaking.

USB-485 Converter
The USB-485 protocol converter converts USB to RS-485 and extends communication up to 1,200 m (4,000 ft). The converter uses an unshielded and twisted communication cable and is powered by a USB port.

(1) IP Link is supported by v4.0 or greater.

EntraPass Special Edition

Cards. . . . . Unlimited
Number of Cards
in Standalone Mode 8,000
Card Families or Site Codes. . . . . . Unlimited
Number of Sites. . . . . Up to 64 (max. 64 controllers)
Door Controllers Per Site. 32
Monitored Points (Input). . . . . 512 per site
Card User Access Levels. . . . . 250 per site

KT-300 Door Controller

Input Power. . . . . 16 VAC, 40 VA, Class 2 transformer
Battery Backup. . . . . One 12V battery 12V/7Ah, supervised, provides operation for up to 12 hours
Dimensions (H x W x D). . . . . 29.9 x 28.8 x 7.7 cm (11.75 x 11.375 x 3 in)
Operating Temperatures. . . . . From 2° to 40°C (35° to 110°F)
Reader Types. . . . . Wiegand, proximity, bar code, magnetic, integrated keypad, and others
Monitored Points (Inputs). . . . . Eight monitored points, NO/NC, with or without end-of-line resistors (expandable to 16)
Door Strike Power. . . . . 12 VDC, 250 mA each, supervised
Auxiliary Power Output . . . . 12 VDC @ 125 mA max., protected and supervised

IP Link

Communication Ports. . . . . RJ-45 Ethernet 10/100Base-T and RS-232
Communication Speed. . . . . Up to 115,200 baud for serial communication
Flash ROM. . . . . 2 MB
RAM. . . . . 8 MB
Compatibility. . . . . KT-100, KT-200 and KT-300 door controllers
Maximum Unit. . . . . Up to 512 IP Links per Corporate Gateway Up to 64 IP Links per Special Edition
Operating Temperature. . . . . 0° to 49°C (32° to 122°F)
Humidity . . . . 0 to 85% non-condensing, indoor use only
DC Power Input. . . . . 12 VDC
Input Current. . . . . Max: 175 mA, Typical: 125 mA

P225XSF ioProx Readers

Typical Read Range . . . . Up to 16.5 cm (6.5 in)
Input Voltage . . . . .4.5 to 14 VDC
Current DC Maximum . . . . 45 mA
Dimensions (H x W x D) . . . . .114.3 x 44.5 x 21.3 mm (4.5 x 1.75 x 0.84 in)
Weight . . . . 90.7 g (3.2 oz)
Color . . . . Black
Transmit Frequency . . . . .125 KHz
Operating Temperature . . . . -35° to 65°C (-30° to 150°F)
Format . . . . XSF

Ordering Information

SK-SE302[2]

Starter Kit Includes: EntraPass Special Edition software CD-ROM, KT-300/128K controller (1), ioProx P225XSF readers (2), USB-485 converter (1), TR1640P/UL transformer (1), 12V/7Ah battery (1), KT-RM1 relay (2), and ioProx P40KEY keytags (5). (US only)

EK-302[2]

Two-Door Expansion Kit Includes: KT-300/128K controller (1), ioProx P225XSF readers (2), TR1640P/UL transformer (1), 12V/7Ah battery (1), and KT-RM1 relay (2). (US only)

EK-IP300[3]

Two-Door Expansion Kit with IP Link Includes: KT-300/128K controller (1), VC-485 converter (1), TR1640P/UL transformer (1), 12V/7Ah battery (1), KT-RM1 relay (2), and KT-IP communication device (1). (US only)

EK-IP302[3]

Two-Door Expansion Kit with IP Link Includes: KT-300/128K controller (1), ioProx P225XSF readers (2), VC-485 converter (1), TR1640P/UL transformer (1), 12V/7Ah battery (1), KT-RM1 relay (2), and KT-IP communication device (1). (US only)

EK-DU300[3]

Two-Door Expansion Kit with Modem Includes: KT-300/128K controller (1), TR1640P/UL transformer (1), 12V/7Ah battery (1), KT-RM1 relay (2), and DU-MODEM-RS modem (1). (US only)

EK-DU302[3]

Two-Door Expansion Kit with Modem Includes: KT-300/128K controller (1), ioProx P225XSF readers (2), TR1640P/UL transformer (1), 12V/7Ah battery (1), KT-RM1 relay (2), and DU-MODEM-RS modem (1). (US only)

(2) For Canadian customers, please add suffix "CDN" to part number to receive the CSA-compliant transformer (SK-SE302CDN or EK-302CDN).
(3) For Canadian customers, please add suffix "-CDN" to the product number to receive the CSA-compliant transformer (EK-IP300-CDN or EK-IP302-CDN or EK-DU300-CDN or EK-DU302-CDN).

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