KANTECH
From Tyco Security Products

ASSA ABLOY Aperio®
Wireless Lock Technology
Integration with EntraPass

Features That Make a Difference:

- Real-time communication with Kantech KT-1-M and KT-400 door controllers, and EntraPass security software and control

- Convenient and easy to integrate with new and existing EntraPass installations

- Utilizes low-power IEEE 802.15.4 wireless communication between the Aperio lock and hub

- All access and scheduling decisions made through the powerful Kantech KT-1-M and KT-400 controllers

- Real-time reporting such as card access transactions, door status, low battery and tamper alarm monitoring

- Wireless communication secured through 128-bit AES encryption

- Card formats supported: HID Proximity 26-bit, Kantech KSF, Corporate 1000 (35- and 48-bit), iCLASS Access ID (Wiegand part: 26-bit, Corporate 1000 35-bit, 48-bit), MIFARE 32-bit, Smartcard UID (or CSN), and MIFARE DESFire Smartcard[1]

- Locks built on a robust Grade 1 mechanical platform for durability

- Heavy-duty locks available in mortise, cylindrical and exit style trim

- Available in cabinet lock and server rack lock formats

EntraPass integrates with ASSA ABLOY Aperio wireless lock technology giving you the flexibility to expand your access control system to almost every opening in your facility. These locks become part of the EntraPass security software ecosystem and can be managed from the EntraPass interface for a unified security management experience. This means that locks can be part of the events, reports, maps, etc. that are core to the everyday security management with EntraPass software.

The access control decisions on these locks are made by the state-of-the-art and reliable Kantech KT-1-M and KT-400 controllers. The Aperio wireless locks on these controllers can be added without taking the current door ports away, meaning the wireless locks can be added to the controllers incrementally simply by purchasing the appropriate software license. Aside from one fully wired door, KT-1-M can also support two additional wireless locks. Similarly, the KT-400, which supports four fully wired doors, can support eight additional wireless locks[2]. The locks

communicate wirelessly with the Aperio hub which is hard-wired to the Kantech controller. The wireless communication between the hub and the locks is protected with 128-bit AES encryption for the most secure communication. Online transactions mean that EntraPass is updated in real-time, providing a high level of control and visibility of door actions.

With no need for additional wiring, ASSA ABLOY Aperio locks can be installed or retrofitted at existing facilities with little or no operational disruption. The locks come in a variety of form factors that accomodate a wide range of interior environments including mortise, cylindrical, and exit devices for standard doors and an electronic cylinder that replaces a traditional mechanical keyed cylinder. Aperio technology is also available in a wireless cabinet lock format which can be used for cabinets, lockers, and drawers. This is ideal in healthcare facilities for storing equipment, drugs, patient files, and valuables. And, there's even a model for server racks which greatly improves the monitoring and security level of data centers.

ASSA ABLOY

The global leader in
door opening solutions

Requirements

EntraPass SE, CE and GE . . . . Version 7.0 or greater
ASSA ABLOY Dealer Certification
VC-485 Communication Interface
License Per Lock

ASSA ABLOY Aperio Support Requirements[3]

Kantech Controller support . . . . KT-1-M and KT-400
Max # of Aperio Locks
  Per KT-1-M 2
  Per KT-400 8
Max # of Aperio Hubs
per Controller 8
Supported Integrations
Per Controller[4] 2

Aperio Wireless Hub

Dimensions (H x W x D) . . . . 82 x 82 x 37 mm (3.25 x 3.25 x 1.5 in)
Power Supply . . . . 8 – 24V DC
Power Draw . . . . 250 mA max, minimum 80mA at 12V DC
Wireless Operating Range . . . . 25 m (depending on the building environment)
Wireless Transmit Power . . . . 10 dBm/MHz
Operating Temperature . . . . 5°C to 35°C (41°F to 95°F)
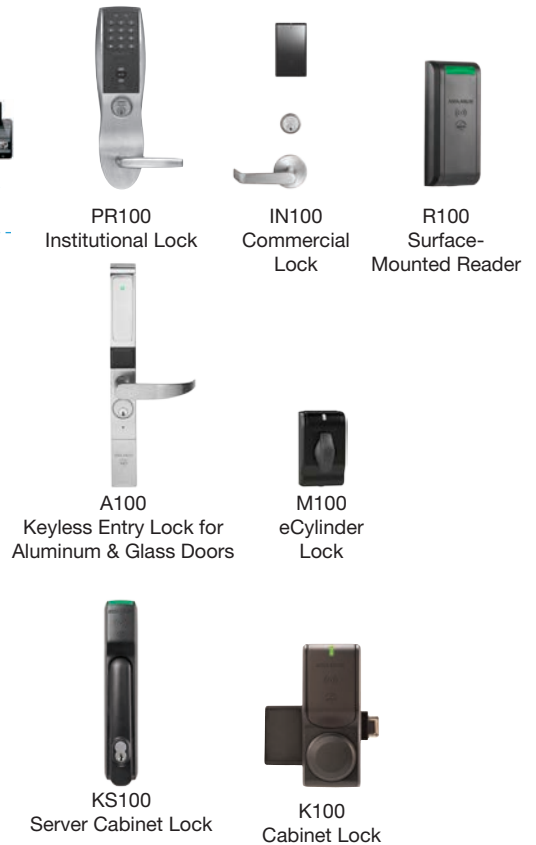Humidity . . . . <95% non-condensing

Aperio Features Supported[5, 6]

• Wireless device tamper in alarm
• Wireless device offline/online
• Radio disturbance detected/cleared
• Battery status low
• Wireless device door state/lock state/handle state

Wireless Lock System Layout

EntraPass Server

EntraPass Client

Ethernet

RS-232

RS-485

VC-485

Wireless Hub[7]

Up to 8 Locks

Aperio
Wireless Lock

KT-400
(Up to 8 doors)

KT-1-M
(Up to 2 doors)

Traditional Hardwired Doors

ASSA ABLOY Aperio Locks

PR100
Institutional Lock

IN100
Commercial
Lock

R100
Surface-
Mounted Reader

A100
Keyless Entry Lock for
Aluminum & Glass Doors

M100
eCylinder
Lock

KS100
Server Cabinet Lock

K100
Cabinet Lock
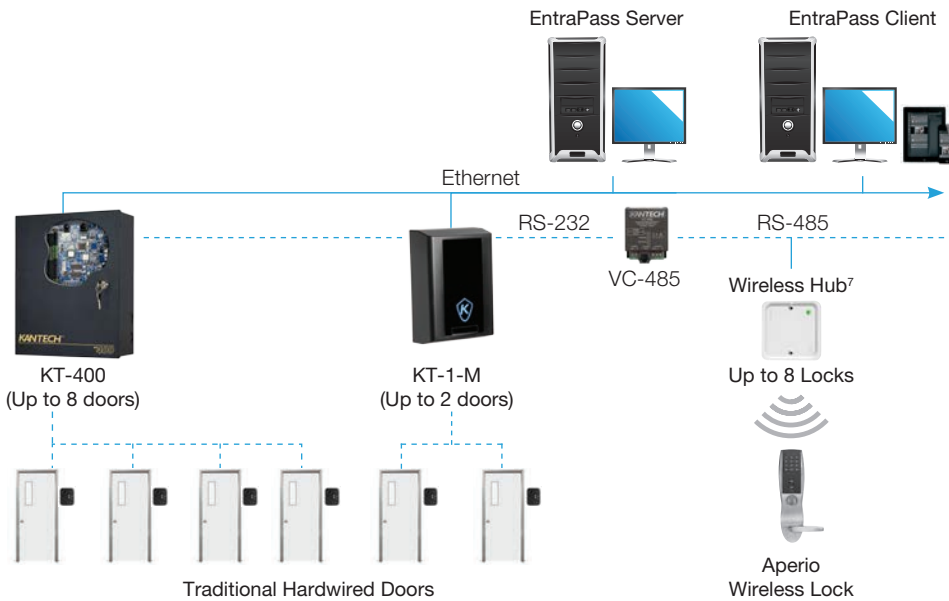
(3) For detailed specifications for each Aperio lock, go to www.intelligentopenings.com/Aperio.
(4) DSC integration with KT-400 or KT-1-M is over IP when integrating with wireless locks
(5) Features not supported at this time: double swipe, scheduled unlock, manual (host) unlock, and area control/anti-passback
(6) Limitations: unlock schedule and first man-in require a card swipe (valid or invalid), no hard-wired DSC integration if using Aperio integration, and best to use for low-traffic doors due to limited battery life
(7) Up to 8 hubs are possible per KT controller

Related Products

EntraPass

KT-1/KT-400

Kantech readers

Approvals

RoHS 2002/95/EC

CE

www.kantech.com