

Communication hub for Aperio wireless devices



Avigilon™ Access Control Manager (ACM) utilizes the ASSA ABLOY™ AH30 1-to-8 Standard Aperio® RS485 (Avigilon part number AC-MER-AH30RN1-RC) communication hub, connected to Mercury controllers, as part of our wireless locks solution. This allows ACM to communicate with up to eight ASSA ABLOY Aperio locks on a single hub and to scale larger with additional hubs and locks as your requirements expand.



WIRELESS LOCKS

Paired with wireless locks, the ASSA ABLOY Aperio RS485 communication hub provides a security solution that is seamless and easy to install. Minimal field configuration is required, and installation has been simplified.

The hub is designed for connection to ACM via RS485 (through Mercury subpanels). There is an integrated antenna with the option to mount an external antenna.

Local wireless communication eliminates the cost and inconvenience of wiring in and around the door, without the hassle of complex site surveys.

The Aperio RS485 communication hub supports:

- Glass door readers
- Server cabinet locks
- Cabinet locks
- eCylinders
- Door position sensors
- Keyless entry controls
- Commercial and institutional locks

KEY FEATURES

Global wireless platform that addresses a wide range of security requirements

Real-time authentication and alarms

Fully encrypted AES 128-bit wireless communication (IEEE 802.15.4)

Compatibility with the following Aperio lock products:

- Adams Rite A100 keyless entry controls
- HES K100 cabinet locks
- Medeco M100 eCylinders
- SARGENT PR100 locks
- SARGENT IN100 locks
- Securitron AS100 wireless door position sensors
- HES KS100 server cabinet locks
- Securitron R100 readers

Power from controller for up to 15 hubs per RS485 line

Integrated antenna

LED for status visualization

ASSA ABLOY

The global leader in door opening solutions



Specifications

TECHNICAL SPECIFICATIONS

Approvals (Certification)	CE, ETL, FCC, IC, C-Tick
Safety and emissions	FCC 47CFR Part 15 subpart B and subpart C; IC RSS-210; EN ETSI 301 489-17 v2.1.1; EN ETSI 300 328 v1.7.1; EN 60950-1 ed.2 2007; UL 294-2010; C22.2
Dimensions (H x W x D)	82 x 82 x 37 mm; 3.22" x 3.22" x 1.45"
Radio standard	IEEE 802.15.4 (2.4 GHz) - 16 channels (11-26 - note that channel 26 is disabled for North America)
Encryption (radio communication)	AES 128-bits
Wireless operating range	Typical range of 15 to 25 meters depending on building environments
Receiver sensitivity	-100 dBm 20%PER
Wireless transmit power	10 dBm/MHz
Internal antenna	Two cross-polarized dipoles
External antenna	One reverse polarity SMA external dipole antenna connector - must not have larger antenna gain than 3.9dBi.
Class of protection	IP20
Operating temperature range	5° C to 35° C
Humidity	< 95% (non-condensing)
Status	LED (red/green/orange)

ORDERING INFORMATION

AC-MER-AH30RN1-RC	AH30 1-to-8 Standard Aperio® RS485 communications hub package contains: <ul style="list-style-type: none"> • One hub with installation instructions • Wall-mountable housing • Fixing screws
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RELATED PRODUCTS

AC-MER-CONT-1DR	Access Platform EP1501 single door controller with PoE support (Mercury EP1501)
AC-MER-CONT-2DR	Access Platform EP1502 door controller (Mercury EP1502)
AC-MER-CONT-64DR	Access Platform EP2500 door controller (Mercury EP2500)
AC-MER-APD-10-USB	AS-APRD1/PAP1 USB radio dongle Programming Application Tool (see below for more details)



ASSA ABLOY Aperio USB radio dongle Programming Application Tool

The ASSA ABLOY Aperio AS-APRD1/PAP1 USB radio dongle provides encrypted radio communication to Aperio devices and hubs. The dongle is used with the Aperio Programming Application software tool for setting up and programming Aperio-based products.

Using the software the installer simply plugs in the USB radio dongle to the PC to communicate directly to the Aperio lock via the communication hub. The software has an encrypted installation database that can be used to manage any number of sites.

KEY FEATURES

Multilingual installation tool
Encrypted installation database
Installation management: <ul style="list-style-type: none"> • Unit configuration • Firmware update • Pair/unpair • Override credentials • Wireless status link • RS485 settings

