

User Manual

ASSA ABLOY
Entrance Systems

Original instructions ASSA ABLOY IoT Gateway 2.0

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Original instructions

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Technical data subject to change without notice.

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Technical specification ASSA ABLOY IoT Gateway 2.0

Manufacturer:	ASSA ABLOY Entrance Systems AB
Address:	Lodjursgatan 10, SE-261 44 Landskrona, Sweden
Type:	ASSA ABLOY IoT Gateway 2.0
Dimensions:	115 mm x 65 mm x 30 mm
Enclosure box:	Fire retardant ABS plastic
Compatible cables:	Category 5 (Cat 5) or Category 6 (Cat 6) twisted pair Ethernet cable
RJ45 connector:	Maximum 7 W without battery or 0.5 W with battery
Main power source:	5 to 24V DC
Ambient temperature:	-20 °C to +75 °C
Degree of protection:	IP40

Wireless Communication Interface and Frequency Bands

For the wireless interface a 4G/2G cellular and a Bluetooth modem is used.

The following table shows the frequency bands used by the IoT Gateway 2.0 (frequency band support may vary depending on regional support).

Frequency Bands	IoT Gateway 2.0
GSM (3GPP Release 6) LB: Power Class 4 (+33dBm) HB: Power Class 1 (+30dBm)	Quad
LTE (3GPP Release 9) Power Class 3 (+23dBm)	1, 2, 3, 4, 5, 7, 8, 12, 13, 18, 19, 20, 26, 28, 38, 39, 40, 41
Bluetooth low energy	2.4 GHz

FCC compliance statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference
- 2 This device must accept any interference received, including interference that may cause undesired operation.

Important: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF-exposure statement

This equipment should be installed and operated with greater than 20cm between the radiator & your body.

Instructions for safe operation



- Failure to observe the information in this manual may result in personal injury or damage to equipment.
- Do not use the equipment if repair or adjustment is necessary.
- Do not open or dismantle. This product does not have any parts that can be repaired by the user.

Intended use

The ASSA ABLOY IoT Gateway 2.0 (referred to as IoT Gateway 2.0 in this manual) connects automatic pedestrian doors to ASSA ABLOY Internet-based services, for remote monitoring, through a cellular wireless modem.

The IoT Gateway 2.0 is easily installed with automatic pedestrian doors, and offers a high quality service in terms of high availability and low need for maintenance.

The IoT Gateway 2.0 is powered through its cable connection to the door control unit or through an external power adapter, it must be installed in an indoor environment and located at a maximum height of 2 meter from the floor or underlying surface. Wherever possible, it is recommended to place the IoT Gateway 2.0 in consideration of the wireless performance. For instance, avoid areas with high radio signal attenuation, and do not place the antenna close to other objects.

Electronic equipment reception interference

The equipment generates and uses radio frequency energy and if not installed and used properly, it may cause interference to radio, television reception or other radio frequency type systems.

If other equipment does not fully comply with immunity requirements, interference may occur.

Environmental requirements

ASSA ABLOY Entrance Systems products are equipped with electronics and may also be equipped with batteries containing materials which are hazardous to the environment. Disconnect power before removing electronics and battery and make sure it is disposed of properly according to local regulations (how and where) as was done with the packaging material.

Product liability

According to regulations, the following are the responsibility of the owner or caretaker of the equipment

- that the equipment operates correctly, so that it gives sufficient protection in regard to safety and health
- that the equipment is operated and regularly maintained, inspected and serviced by someone with documented competence in the equipment and in applicable regulations

ASSA ABLOY IoT Gateway 2.0 LED Indication table

LED	LED description	
Steady green LED	Power to the IoT Gateway 2.0.	
Flashing yellow LED, 0.5 s ON then 0.5 s OFF	Firmware upgrade in progress. Do not remove power to the IoT Gateway 2.0.	
Flashing yellow LED, 1 flash every 5 s	Searching for cellular network.	
Flashing yellow LED, 2 flash every 5 s	Connected to cellular network.	
Flashing yellow LED, 3 flash every 5 s	Not paired to door.	
Steady yellow LED	Everything is OK. Connected to the cloud.	
Flashing red LED, 5 flashes every 1 s	Critical system error	Contact your ASSA ABLOY Entrance Systems representative.
Flashing red LED, 1 flash every 1 s	Battery low, modem turned OFF, no connection to the cloud.	Repeated red flashes over long time - contact your ASSA ABLOY Entrance Systems representative.
Flashing red LED, 2 flash every 5 s	Battery low, delayed transmission from control system.	
Flashing red LED, 3 flash every 5 s	Battery low, no transmission from control system.	

Declaration of conformity

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We **ASSA ABLOY Entrance Systems AB**
Lodjursgatan 10
SE-261 44 Landskrona
Sweden

declare under our sole responsibility that the type of equipment:
ASSA ABLOY IoT Gateway 2.0

complies with the following directives:

2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment with the applicable amendments (RoHS)
2014/53/EU Radio Equipment Directive (RED)

Harmonized European standards which have been applied:

Health and safety (Art. 3(1)(a)): EN 62311:2020
EN 62368-1:2020+A11:2020

EMC (Art. 3(1)(b)): EN 301 489-1 v2.2.3:2019
EN 301 489-52 v1.2.1:2021
EN 55032:2015+A11:2020

Spectrum (Art. 3(2)): EN 301 908-1 v15.1.1:2021
EN 301 511 v12.5.1:2017

CB Certificate for electrical safety:
DK-12393-FC

Compilation of technical file:
ASSA ABLOY Entrance Systems AB
Lodjursgatan 10
SE-261 44 Landskrona
Sweden

Place
Fehrltorf

Date
2023-05-30

Signature
Mats Nordén



Position
Head of Product Development Product Area Door
Automation

ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. Building on the long-term success of the Besam, Crawford, Albany and Megadoor brands, we offer our solutions under the ASSA ABLOY brand. Our products and services are dedicated to satisfying end-user needs for safe, secure, convenient and sustainable operations. ASSA ABLOY Entrance Systems is a division within ASSA ABLOY.

ASSA ABLOY

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