

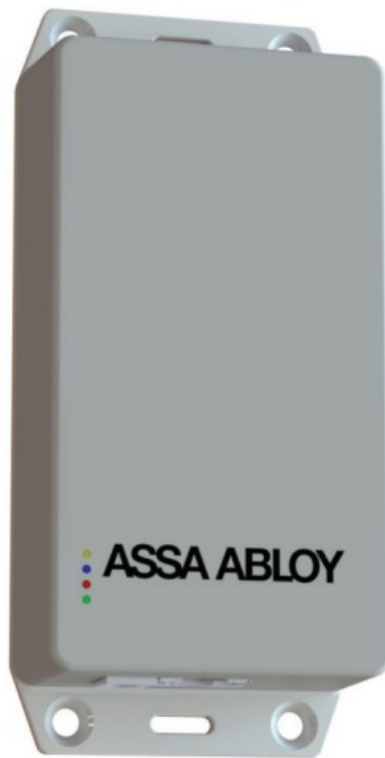


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ASSA ABLOY

ASSA ABLOY IOT20A IoT 2.0 Gateway Generation



Specifications

- **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
- **Degree of protection:** IP40

Wireless Communication Interface and Frequency Bands

The ASSA ABLOY IoT Gateway 2.0 utilizes a wireless interface including a 4G/2G cellular and Bluetooth modem.

The frequency bands supported are as follows

- **GSM (3GPP Release 6):** Quad, LB: Power Class 4 (+33 dBm), HB: Power Class 1

(+30 dBm)

- **LTE (3GPP Release 9):** Power Class 3 (+23dBm), Bands: 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

- The device complies with part 15 of the FCC Rules and must operate under specific conditions to prevent harmful interference.
- Please ensure proper installation and operation to comply with regulations.

Instructions for Safe Operation

- **Intended Use:** The equipment is designed for electronic equipment reception interference and may cause interference if not properly installed and used.
- **Environmental Requirements:** Disconnect power before handling electronics and batteries for proper disposal according to regulations.
- **Product Liability:** Owners or caretakers are responsible for the proper use and maintenance of the equipment according to regulations.

Product Usage Instructions

1. Ensure the IoT Gateway is powered by a compatible power source within the range of 5 to 24V DC.
2. Connect the Gateway using Category 5 or Category 6 Ethernet cables with an RJ45 connector.
3. Follow the LED indication table for status updates and troubleshooting.
4. Adhere to FCC compliance guidelines to prevent interference issues.
5. Handle and dispose of electronics and batteries properly according to environmental regulations.

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 are 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 (+33 dBm) HB: Power Class 1 (+30 dBm)	Quad

LTE (3GPP Release 9) Power Class 3 (+23 dBm)	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, under 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 per the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Suppose this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. In that case, 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 to 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 that 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 for safety and health.
- that the equipment is operated and regularly maintained, inspected, and serviced by someone with documented competence in the equipment and 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 a cellular network.
Flashing yellow LED, 2 flashes every 5 s	Connected to a cellular network.
Flashing yellow LED, 3 flashes every 5 s	Not paired to the 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 a long time – contact your ASSA ABLOY Entrance Systems representative.
Flashing red LED, 2 flashes every 5 s	Battery low, delayed transmission from the control system.	
Flashing red LED, 3 flashes every 5 s	Battery low, no transmission from the control system.	

Declaration of conformity

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 the 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.

assaabloyentrance.com

- **ASSA ABLOY Entrance Systems**

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- Backtrack information: folder: Workspace Main, version:a851, Date:2024-05-16 time:12:54:54, state: Frozen

FAQ

- **Q: What should I do if the LED indications are not functioning as expected?**
 - **A:** If LED indications are not working correctly, please check the power source, connections, and refer to the user manual for troubleshooting steps.
- **Q: Can I use any type of Ethernet cable with the ASSA ABLOY IoT Gateway?**
 - **A:** It is recommended to use Category 5 (Cat 5) or Category 6 (Cat 6) twisted pair Ethernet cables for optimal performance and compatibility.

Documents / Resources



[ASSA ABLOY IOT20A IoT 2.0 Gateway Generation \[pdf\]](#) User Manual
IOT20A IoT 2.0 Gateway Generation, IOT20A, IoT 2.0 Gateway Generation, Gateway Generation

References

- [User Manual](#)

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ASSA ABLOY, Gateway Generation, IoT 2.0 Gateway Generation, IOT20A, IOT20A IoT 2.0 Gateway Generation

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