

# V:IoT APG2-PCIA-B module Installation manual

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## 1 General

This is OEM installation manual for APG2-PCIA-B module.

If you have any problems with installation, please contact the SES-imagotag Support Team ([support.at@ses-imagotag.com](mailto:support.at@ses-imagotag.com)).

If there are questions regarding AP in which this module is installed, please contact AP manufacturer directly.

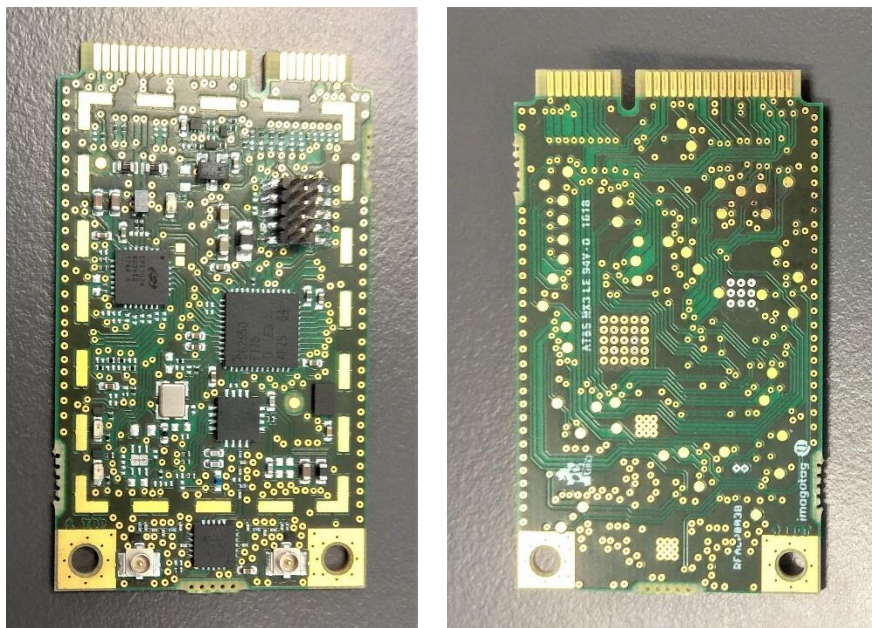


Figure 1 – APG2-PCIA-B module photo



Figure 2 – Retail IoT Connector Cisco Aironet 3800

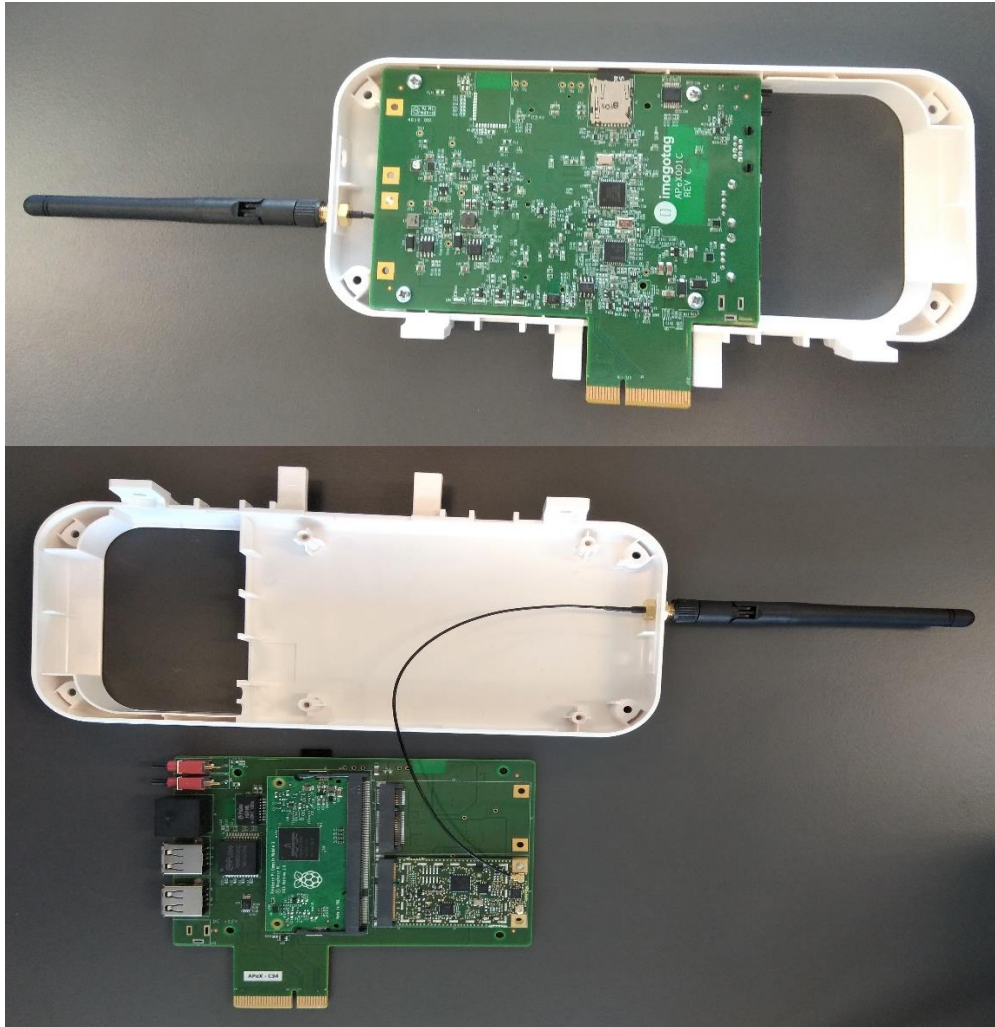


Figure 3 – Retail IoT Connector Cisco Aironet 3800 disassembled (APG2-PCIA-B module + Retail IoT Connector Cisco Aironet 3800 base board)

## 2 Description

APG2-PCIA-B module is responsible for transmitting and receiving messages from SES-Imagotag electronic shelf label (ESL) network.

It cannot work standalone and must be plugged into another device (host device), usually Access-point (AP), which supports the module. Configuration and startup of the module is done over the host device. This manual is not covering this because it is device dependent. Separate instruction manual is provided with each supporting host device.

**NOTE: This module is not standard mPCle device!**  
**Module just has same form factor as mPCle.**  
**It is compatible only with dedicated devices.**



Figure 4 – host device (Cisco AP) and Retail IoT Connector Cisco Aironet 3800

### 3 Specification

- **Chipset:** Texas instruments CC2650
- **Radio frequency:** 2404-2480 MHz
- **Output power:** Max. 10 dBm
- **Protocol:** proprietary
- **Modulation:** MSK
- **Data Rate:** 250 kbps
- **Supply voltage:** 3.3V
- **Supply power:** Max. 0.5W
- **Operating temperature:** 0-60 °C

## 4 Installation

This module must be installed by trained professionals only. It is not allowed for end user to install, remove or modify any of device connections.

This module is ESD sensitive device. Make sure to discharge properly before touching it. Base board must be powered off.

Grasp the module by its edges and align the notch in the connector on the base board.

Insert the module into connector at around 30-degree angle.

Lower the other end of the module and make sure it is aligned with screw holes.

Insert and tighten two M2 screws or lock the card with fastener.

Attach the antenna cable or antenna pigtail cable. Use only antenna provided with the module.

Power on the host device and make sure green LED is lit on the module.

## 5 Labeling

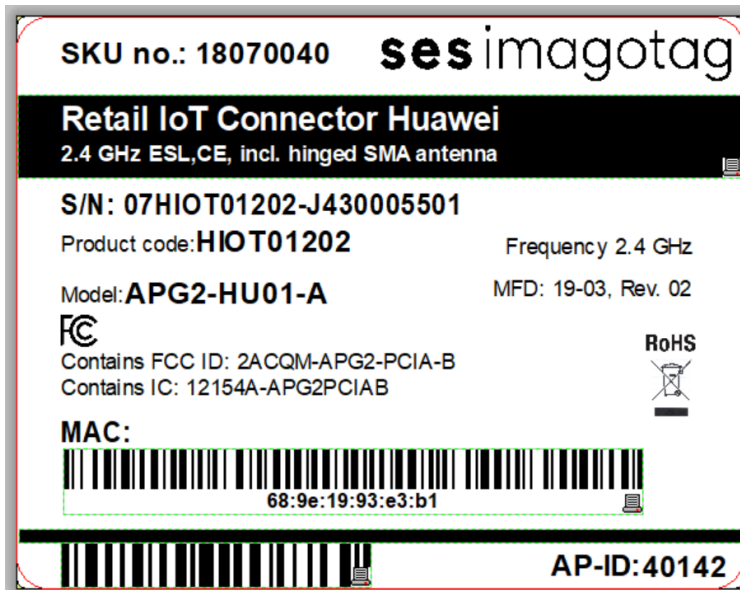


Figure 5 – Retail IoT Connector Cisco Aironet 3800 Label

PCIA-APG2-B Module itself does not have a label. It is not sold by itself and it is used only in our equipment. Our equipment's label contains FCC ID and IC ID of the APG2-PCIA-B Module as on the example above (Figure 5).

Contains FCC ID: 2ACQM-APG2-PCIA-B  
Contains IC: 12154A-APG2PCIA-B



## 6 Declaration

### FCC

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate the equipment.

### IC

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: 1) L'appareil ne doit pas produire de brouillage; 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.