User manual

(for EB5340)

FCC ID: 2A6NFEB5340

IC: 28568-EB5340

KAGA FEI Co., Ltd.

This module should be installed in the host device according to the interface specification.

1) Japan Regulatory Information
   a) This module is approved with the specific antenna on this module.
   b) Please ensure that your product can bear a label with the following information. If the product is so small that it is not practicable to place the label, please place it in the instruction manual and package.

      This product installs a radio system which has been approved as a radio station in a low power data communication system based on the Radio Law.
      EB5340 : 005-103285

2) Canada Regulatory Information
   The following information must be indicated on the host device of this module;
   a) This device complies with Innovation, Science and Economic Development Canada's applicable licence-exempt RSSs. Operation is subject to the following two conditions:
      (1) This device may not cause interference; and
      (2) This device must accept any interference, including interference that may cause undesired operation of the device.

      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'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

   b) This product is certified as type of the portable device with Innovation, Science and Economic Development Canada Rules. To maintain compliance with RF Exposure requirement, please use within specification of this product.

      Ce produit est certifié comme type de l'appareil portable avec Règles de Innovation, Sciences et Développement économique Canada. Pour maintenir l'acquiescement avec exigence Exposition de RF, veuillez utiliser dans spécification de ce produit.
      - IC: 28568-EB5340

   c) Please notify certified ID on your product.
      -Contains IC : 28568-EB5340
      Veuillez indiquer le numéro d'identification certifié sur votre produit.
      -Contains IC : 28568-EB5340

3) FCC Regulatory Information
   a) This device complies with part 15 of the FCC Rules.
      -Part 15 Subpart C
   b) The following statement shall be indicated on the host device or the user manual of the host device; 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.
   c) Please notify certified ID by either one of the following method on your product.
      -Contains Transmitter Module FCC ID: 2A6NFEB5340
      -Contains FCC ID: 2A6NFEB5340
   d) The following statement shall be indicated in the user manual of the host device; CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the use's authority to operate the equipment.
   e) The modular transmitter is only FCC authorized for the specific rule parts (Part 15 Subpart C) listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.
   f) This product is certified as type of the portable device with FCC Rules. To maintain compliance with RF Exposure requirement, please use within specification of this product.
   g) The following statement shall be indicated in the user manual of the host device; The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
   h) The module installer shall integrate the module within the range (including output power) under which the module is certified, by means of application software depending on the circumstances. The module installer must follow the integration instructions provided by Kaga FEI and ensure that the end product complies with the FCC requirements. Any end user cannot change the output power. The test software is developed by Kaga FEI, and during regulatory testing the output power is set to maximum power.
   i) Antenna List

No.1	
Antenna Category	Monopole
Antenna Type	PCB antenna
Dimensions	9.6mm x 3.8mm

4) CE Regulatory Information
   a) When your end product installs this module, it is required to proceed additional certification processes before placing on the market in EU member states to make your products fully comply with relative EU standards.
   b) KAGA FEI can provide you the test reports of conducted measurement portion for the radio module. You can utilize the test reports for the certification processes of your end product as it requires radio testing.

Control No. (1/3)	Control name Pin Layout

Pin Descriptions

Pin	Pin name	Pin function	Description
1	GND	Ground	Ground
2	P1.01	Digital I/O	General purpose I/O
3	P1.02	Digital I/O	General purpose I/O
4	P0.19	Digital I/O	General purpose I/O
5	P1.03	Digital I/O	General purpose I/O
6	P0.23	Digital I/O	General purpose I/O
7	P0.20	Digital I/O	General purpose I/O
8	P1.15	Digital I/O	General purpose I/O
9	VDD	Power	Power supply
10	GND	Ground	Ground
11	VDDH	Power	High voltage power supply
12	VBUS	Power	5 V input for USB 3.3 V regulator
13	D-	Digital I/O	USB D-
14	D+	Digital I/O	USB D+
15	P0.15	Digital I/O	General purpose I/O
16	RESET	Reset	Pin RESET with internal pull-up resistor
17	P0.18	Digital I/O	General purpose I/O
18	P1.05	Digital I/O	General purpose I/O
19	P1.07	Digital I/O	General purpose I/O
20	P1.08	Digital I/O	General purpose I/O
21	SWDIO	Debug	Serial wire debug I/O for debug and programming
22	SWDCLK	Debug	Serial wire debug clock input for debug and programming
23	P1.10	Digital I/O	General purpose I/O
24	P0.26	Digital I/O	General purpose I/O
25	P0.02_NFC1	Digital I/O NFC input	General purpose I/O NFC antenna connection
26	P0.03_NFC2	Digital I/O NFC input	General purpose I/O NFC antenna connection
27	P1.12	Digital I/O	General purpose I/O
28	GND	Ground	Ground
29	OUT_MOD	RF In/Out	RF I/O pin. It should be connected to **Pin30** OUT_ANT for normal operation.
30	OUT_ANT	Antenna In/Out	Internal antenna. It should be connected to **Pin29** OUT_MOD for normal operation

Control No. (2/3)	Control name Pin Layout

Pin	Pin name	Pin function	Description
31	GND	Ground	Ground
32	P0.07_AIN3	Digital I/O Analog input	General purpose I/O Analog input
33	P0.06_AIN2	Digital I/O Analog input	General purpose I/O Analog input
34	P0.05_AIN1	Digital I/O Analog input	General purpose I/O Analog input
35	P0.04_AIN0	Digital I/O Analog input	General purpose I/O Analog input
36	P1.00	Digital I/O	General purpose I/O
37	P0.21	Digital I/O	General purpose I/O
38	P0.22	Digital I/O	General purpose I/O
39	P0.12	Digital I/O	General purpose I/O
40	P0.08	Digital I/O	General purpose I/O
41	P0.09	Digital I/O	General purpose I/O
42	P0.10	Digital I/O	General purpose I/O
43	P0.11	Digital I/O	General purpose I/O
44	P0.13	Digital I/O	General purpose I/O
45	P0.14	Digital I/O	General purpose I/O
46	P0.16	Digital I/O	General purpose I/O
47	P0.17	Digital I/O	General purpose I/O
48	P1.04	Digital I/O	General purpose I/O
49	P1.06	Digital I/O	General purpose I/O
50	P1.09	Digital I/O	General purpose I/O
51	P0.29	Digital I/O	General purpose I/O
52	P0.28_AIN7	Digital I/O Analog input	General purpose I/O Analog input
53	P0.27_AIN6	Digital I/O Analog input	General purpose I/O Analog input
54	P0.25_AIN4	Digital I/O Analog input	General purpose I/O Analog input
55	P0.24	Digital I/O	General purpose I/O
56	P1.11	Digital I/O	General purpose I/O
57	P1.13	Digital I/O	General purpose I/O
58	P1.14	Digital I/O	General purpose I/O
59	P0.30	Digital I/O	General purpose I/O
60	P0.31	Digital I/O	General purpose I/O

Control No. (3/3)	Control name Pin Layout

Pin	Pin name	Pin function	Description
61	Corner pad	Ground	Ground 1.0mm x 0.7mm
62	Corner pad	Ground	Ground 1.0mm x 0.7mm
63	Center pad	Ground	Ground 4.3mm x 3.0mm