

User manual

(for EJ2833)

FCC ID: 2A6NFEJ2833

IC: 28568-EJ2833

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

1) Japan Regulatory Information

- a) This Product is a radio system and obtained certification of construction type combined with the specific antenna.
- b) Please ensure that your product has a label with the following certification mark at easily viewable location. If your product is too small to have the label, please place it in the instruction manual and package of your product. The mark diameter shall be easily legible. In case your product does not have the label with the following certification mark, you or your customer who uses your product may be against the Radio Law and subjected to criminal punishment. KAGA FEI shall not be liable for any loss or damage incurred by you or your customer arising from use of your product which does not have following certification mark.

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.

EJ2833 : 005-103151



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 and have a separation distance of minimum 15 mm between the user and/or bystander and the antenna and /or radiating element.

This distance ensures that the output power (e.i.r.p.) of EJ2833 is below the SAR evaluation Exemption limits defined in RSS-102 issue 5.

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 et respecter une distance de séparation d'au moins 15 mm entre l'utilisateur et / ou un tiers et l'antenne et / ou l'élément rayonnant.

Cette distance garantit que la puissance de sortie (p.i.r.e.) d'EJ2833 est inférieure aux limites d'exemption de l'évaluation SAR définies dans le numéro 5 de la norme RSS-102.

- IC: 28568-EJ2833

- c) Please notify certified ID by either one of the following method on your product.

-Contains IC : 28568-EJ2833

Specifiez ID certifiée dans votre produit par une de méthode suivante.

-Contains IC : 28568-EJ2833

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: 2A6NFEJ2833
-Contains FCC ID: 2A6NFEJ2833
- d) Since there is no space which indicates FCC ID on this module, FCC ID is indicated in a manual. If the FCC ID is not visible when the module is installed inside another device, then the module is installed must also display a label referring to the enclosed module.
- e) 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.
- f) 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.

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- g) 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 and have a separation distance of minimum 10 mm between the user and/or bystander and the antenna and /or radiating element. This distance ensures that max output power of EJ2833 is below the SAR test exclusion limits presented in KDB 447498 D04v01.
- h) 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.
- i) This module can change the output power depending on the circumstances by the application software which is developed by module installer. Any end user cannot change the output power.
- j) Antenna List

No.1	
Antenna Category	Monopole
Antenna Type	PCB antenna
Dimensions	3.45mm x 4.7mm

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.

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Control No.	Control name
(1/2)	Pin Layout

Pin Descriptions

Pin	Pin name	Pin function	Description
1	GND	Power	Ground
2	P0.00 XL1	Digital I/O Analog input	General purpose I/O Connection for 32.768kHz crystal
3	P0.01 XL2	Digital I/O Analog input	General purpose I/O Connection for 32.768kHz crystal
4	P0.04 AIN2	Digital I/O Analog input	General purpose I/O Analog input
5	VDD	Power	Power supply
6	DEC4	Power	1V3 regulator supply decoupling
7	P0.30 AIN6	Digital I/O Analog input	General purpose I/O Analog input
8	P0.28 AIN4	Digital I/O Analog input	General purpose I/O Analog input
9	GND	Power	Ground
10	P0.02 AIN0	Digital I/O Analog input	General purpose I/O Analog input
11	P0.03 AIN1	Digital I/O Analog input	General purpose I/O Analog input
12	GND	Power	Ground
13	OUT_ANT	Antenna In/Out	Internal antenna. It should be connected to Pin 14 OUT_MOD for normal operation.
14	OUT_MOD	RF In/Out	RF I/O pin. It should be connected to Pin 13 OUT_ANT for normal operation.
15	GND	Power	Ground
16	SWDIO	Digital I/O	Serial Wire Debug I/O for debug and programming
17	SWDCLK	Digital input	Serial Wire Debug clock input for debug and programming
18	P0.18 RESET	Digital I/O	General purpose I/O Configurable as pin RESET (Factory default : GPIO)
19	P0.08	Digital I/O	General purpose I/O
20	GND	Power	Ground
21	P0.06	Digital I/O	General purpose I/O
22	P0.07	Digital I/O	General purpose I/O

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

Pin	Pin name	Pin function	Description
23	P0.05 AIN3	Digital I/O Analog input	General purpose I/O Analog input
24	DCC	Power	DC/DC converter output
25	P0.09 NFC1	Digital I/O NFC input	General purpose I/O NFC antenna connection
26	P0.10 NFC2	Digital I/O NFC input	General purpose I/O NFC antenna connection
27	P0.29 AIN5	Digital I/O Analog input	General purpose Analog input
28	GND	Power	Ground