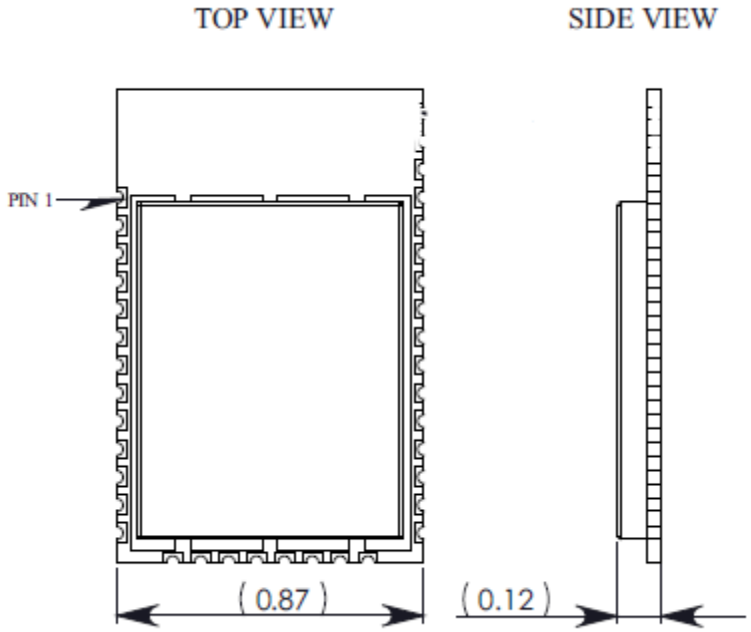


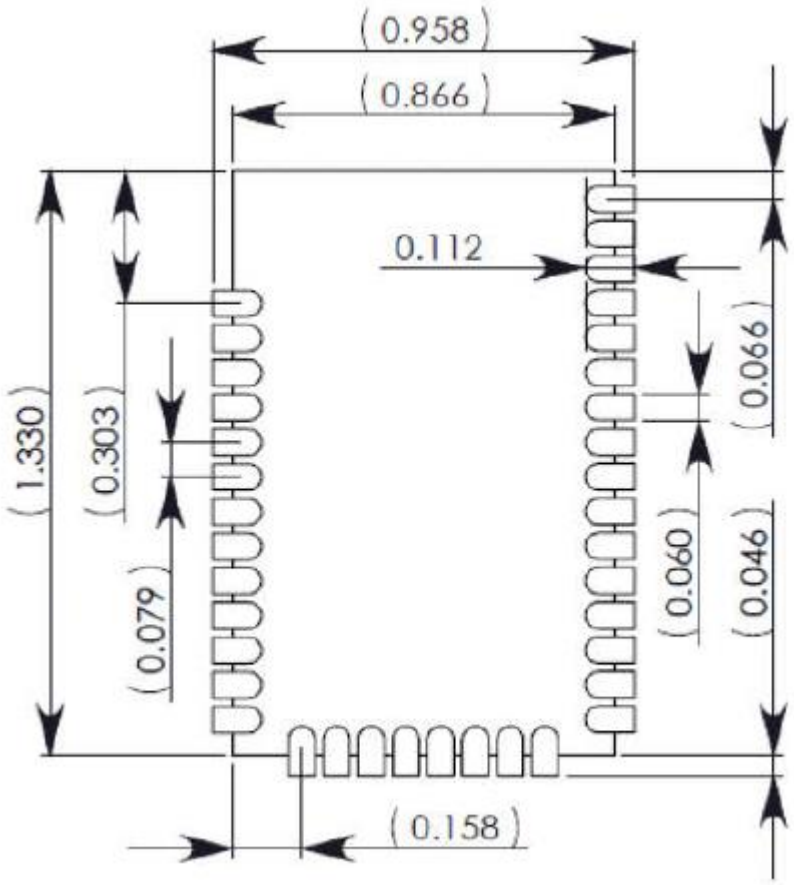
Module Pin Name and Description:

Pin #	Pin Name	Pin Description
1	GND	Ground
2	VCC	Power supply
3	DOUT / DIO-PA9	UART Data Out / GPIO / I2C SCL / PWM
4	DIN / DIO-PA10	UART Data In / GPIO / I2C SDA / PWM
5	DIO-PC13	GPIO / RTC Alarm
6	*RESET	Module Reset
7	RSSI PWM/DIO-PB4	RX Signal Strength Indicator / GPIO
8	DIO-PB10	Pulse Width Modulator / GPIO
9	[reserved]	Do not connect
10	*DTR / SLEEP_RQ / DIO-PB0	Pin Sleep Control Line / GPIO / A2D input / PWM

11	GND	Ground
12	*SPI_ATTN / *BOOTMODE, DIO-PF11	Select boot source / GPIO Can boot from UART, FLASH, RAM, I2C, or USB
13	GND	Ground
14	SPI_CLK / DIO-PA5	Serial Peripheral Interface Clock / GPIO / A2D input / PWM
15	*SPI_SSEL / DIO-PA4	Serial Peripheral Interface not Select / GPIO / A2D input / PWM
16	SPI_MOSI / DIO-PA7	Serial Peripheral Interface Data In / GPIO / A2D input / PWM
17	SPI_MISO / DIO-PA6	Serial Peripheral Interface Data In / GPIO / A2D input / PWM
18	[reserved]	Do not connect SWCLK; used in production to program uC
19	[reserved]	Do not connect / GPIO
20	[reserved]	Do not connect PWM / GPIO
21	[reserved]	Do not connect SWDIO; used in production to program uC
22	GND	Ground
23	[reserved]	Do not connect GPIO
24	DIO-PC14	GPIO
25	*CTS / DIO-PA11	Clear to Send Flow Control / GPIO / PWM / CAN / USB
26	ON / *SLEEP / DIO-PA15	Module Status Indicator / GPIO / PWM / UART2 RX
27	AD9	A2D input / PWM / GPIO
28	DIO-PB3	GPIO / PWM

29	*RTS / DIO-PA12	Request to Send Flow Control / GPIO / PWM / CAN / USB
30	AD3 / DIO-PA3	Analog Input / GPIO / PWM / UART2 RX
31	AD2 / DIO-PA2	Analog Input / GPIO / PWM / UART2 TX
32	AD1 / DIO-PA1	Analog Input / GPIO / PWM / UART2 RTS
33	AD0 / DIO-PA0	Analog Input / GPIO / PWM / UART2 CTS
34	Attn	Radio Module asserts this when it requires attention
35	GND	Ground
36	-	Not connected
37	[reserved]	Do not connect
38	CAN_TX	CAN TX/ I2C SDA / PWM / GPIO / IR_OUT
39	CAN_RX	CAN RX / I2C SCL / PWM / GPIO
40	VBAT	Voltage supply for small amount of RAM and RTC (intended to be connected to a battery)

Host PCB mating footprint:



Antenna Type:
Antenna A: Dipole antenna
Antenna B: Matel antenna or Spiral antenna
The two antenna can not work at the same time.
external antenna is not allowed and it may subject to additional testing and certification.

Warnings:

FCC Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

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.

Warning: Changes or modifications not expressly approved by the party responsible
for compliance could void the user's authority to operate the equipment.

"This equipment & Host complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
This equipment & Host should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body."

This module is designed to comply with the FCC statement, FCC ID is: 2AEOD-1400004B00101. IC is 20139-1400004B001
The host system using this module, should have label in a visible area indicated the following texts:
"Contains FCC ID: 2AEOD-1400004B00101, IC: 20139-1400004B001".

This LMA is tested and approved as standalone configuration, additional evaluation may be required for any system integrated this radio module
this module and its antenna should not be installed and operated with other radio simultaneously

IC Caution.
RSS-Gen Issue 4 Nov 2014"&"CNR-Gen 4e éditionNovembre 2014:

- English:
This device complies with Industry Canada licence-exempt RSS standard(s). 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.

- French:
Le presentappareilest conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitationestautorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareildoit accepter tout brouillageradioélectriquesubi, mêmesi le brouillageest susceptible d'encompromettre le fonctionnement.