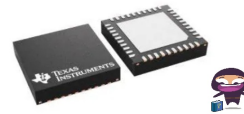




TEXAS
INSTRUMENTS
1312PSIP-2
SimpleLink
Wireless MCU



TEXAS INSTRUMENTS 1312PSIP-2 SimpleLink Wireless MCU Instruction Manual

[Home](#) » [Texas Instruments](#) » TEXAS INSTRUMENTS 1312PSIP-2 SimpleLink Wireless MCU Instruction Manual

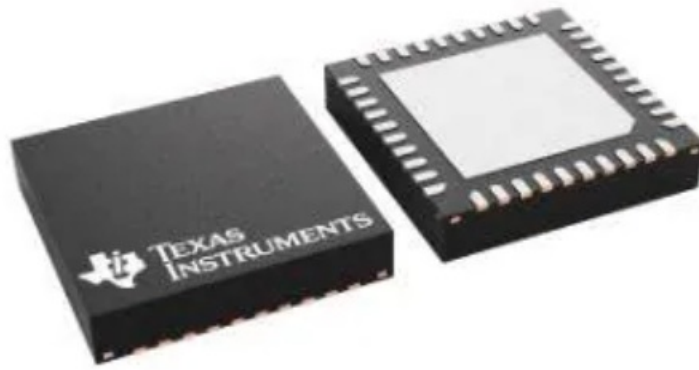


Contents

- [1 TEXAS INSTRUMENTS 1312PSIP-2 SimpleLink Wireless MCU](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Important Notice to OEM integrators](#)
- [5 Antenna Installation](#)
- [6 Manual Information to the End User](#)
- [7 Federal Communication Commission Interference Statement](#)
- [8 End Product Labeling](#)
- [9 IMPORTANT NOTICE AND DISCLAIMER](#)
- [10 Documents / Resources](#)
 - [10.1 References](#)
- [11 Related Posts](#)



TEXAS INSTRUMENTS 1312PSIP-2 SimpleLink Wireless MCU



Product Information

Specifications

- Brand: Texas Instruments
- Model: RF Module
- Antenna Types:
 - Integrated PCB antenna
 - Flexi PCB antenna
 - Stanced antenna
 - External whip antenna
 - Chip antenna
 - Wire antenna
- Frequency Range: Not specified
- Maximum Gain: +2.69 dBi

Product Usage Instructions

OEM/Integrators Installation

This module is limited to OEM installation ONLY. Ensure compliance with regulatory requirements.

Antenna Installation

1. Install the antenna maintaining a distance of 20 cm between the antenna and users.
2. Avoid co-locating the transmitter module with other transmitters or antennas.
3. Use only antennas of the same type with equal or less gain as specified in the manual.

FAQs

Q: Can this module be used in portable configurations?

A: Separate approval is required for portable configurations as per regulatory guidelines.

OEM/Integrators Installation Manual

Important Notice to OEM integrators

1. This module is limited to OEM installation ONLY.

2. This module is limited to installation in mobile or fixed applications, according to Part 2.1091(b).
3. The separate approval is required for all other operating configurations, including portable configurations with respect to Part 2.1093 and different antenna configurations
4. For FCC Part 15.31 (h) and (k): The host manufacturer is responsible for additional testing to verify compliance as a composite system. When testing the host device for compliance with Part 15 Subpart B, the host manufacturer is required to show compliance with Part 15 Subpart B while the transmitter module(s) are installed and operating. The modules should be transmitting and the evaluation should confirm that the module's intentional emissions are compliant (i.e. fundamental and out of band emissions). The host manufacturer must verify that there are no additional unintentional emissions other than what is permitted in Part 15 Subpart B or that emissions are compliant with the transmitter(s) rule(s).

Antenna Installation

1. The antenna must be installed such that 20 cm is maintained between the antenna and users,
2. The transmitter module may not be co-located with any other transmitter or antenna.
3. Only antennas of the same type and with equal or less gains as shown below may be used with this module.
Other types of antennas and/or higher gain antennas may require additional authorization for operation.

Brand	Antenna Type	Peak Gain (dBi)
TI	Integrated PCB antenna	+2.69 dBi
Kaadas	Flexi PCB antenna	-5.82 dBi
Leederson	Integrated PCB antenna	-4.51 dBi
Leederson	Integrated PCB antenna	-1.83 dBi
Leederson	Stanced antenna	-9.48 dBi
Leederson	Stanced antenna	+0.37 dBi
Leederson	Integrated PCB antenna	-1.74 dBi
Pulse	External whip antenna	+0.90 dBi
Johanson Technology	Chip antenna	-0.50 dBi
Johanson Technology	Chip antenna	+1.00 dBi
Pulse	Wire antenna	+0.80 dBi

Table 1 – Antenna Specifications

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC/IC authorization is no longer considered valid and the FCC ID/IC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC/IC authorization.

Manual Information to the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove

this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as shown in this manual.

Federal Communication Commission Interference 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, and
2. this device must accept any interference received, including interference that may cause undesired operation.

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 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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Statement

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.

CAN ICES-3(B)/ NMB-3(B)

Radiation Exposure Statement

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

End Product Labeling

In order to comply with the CC1312PSIP modular approval for use in Canada and the United States. OEM/Host manufacturers must include the following example label as shown in Figure 5 on their end-product and user manual.

- Model: CC1312PSIPMOT2 ContainsF
- CC ID: ZAT-1312PSIP-2 Contains

- IC: 451H-1312PSIP2

Figure 1 – Example label for end product to reuse the modular approval

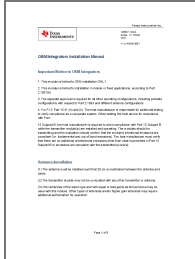
IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS. These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements. These resources are subject to change without notice.

TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources. TI's products are provided subject to TI's Terms of Sale or other applicable terms available eitheront.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products. TI objects to and rejects any additional or different terms you may have proposed.

IMPORTANT NOTICE Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2022,

Documents / Resources

	<p>TEXAS INSTRUMENTS 1312PSIP-2 SimpleLink Wireless MCU [pdf] Instruction Manual 1312PSIP-2, ZAT-1312PSIP-2, ZAT1312PSIP2, 1312PSIP-2 SimpleLink Wireless MCU, 1312PSIP-2, SimpleLink Wireless MCU, Wireless MCU, MCU</p>
---	--

References

- [User Manual](#)

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.