

Important Notice

Texas Instruments (TI) reserves the right to make changes to or to discontinue any product or service identified in this publication without notice. TI advises its customers to obtain the latest version of the relevant information to verify, before placing orders, that the information being relied upon is current.

TI warrants performance of its products to current specifications in accordance with TI's standard warranty. Testing and other quality control techniques are utilized to the extent TI deems necessary to support this warranty. Unless mandated by government requirements, specific testing of all parameters of each device is not necessarily performed.

TI assumes no liability for TI applications assistance, customer product design, software performance, or infringement of patents or services described herein. Nor does TI warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right of TI covering or relating to any combination, machine, or process in which such products or services might be or are used.

FCC / PTT Regulations

The TIRIS RF Module generates RF emissions at 134.2 kHz. The radiation of the fundamental and the harmonics will vary with the type of antenna and other devices or functions connected to the RF Module.

Prior to operating the RFM together with antenna(e), power supply and a control module or other devices, the required FCC, PTT or relevant government agency approvals must be obtained.

Sale, lease or operation in some countries may be subject to prior approval by the government or other organizations.

Important Note to Purchasers/Users of the TIRIS RF Module in the U.S.A.

The TIRIS RF Module product is considered by the Federal Communications Commission (FCC) to be a "subassembly". As such, no prior approval is required to import, sell or otherwise market the RF Module in the United States. In order to form a functioning radio frequency RF device, the RF Module must be connected to a suitable antenna, power supply, and control circuitry. **A radio frequency device may not be operated unless authorized by the FCC nor may a radio frequency device be marketed (i.e. sold, leased, imported, or advertised for sale or lease) without the prior grant of an FCC equipment authorization.**

FCC authorization to operate an RF device may take one of two forms: first, the FCC may grant the user an experimental license; second, the FCC may issue an equipment authorization permitting use of the RF device on an unlicensed basis. TI can assist the user in obtaining an experimental license that will cover a specific installation of the RF Module in a specific site or sites. Experimental authorizations are appropriate to cover operations during the development

of an RF device. A grant of equipment authorization (known as "certification") must be obtained from the FCC before RF devices are marketed or operated on a nondevelopment basis.

An equipment authorization has already been issued for use of the RF Module and other TIRIS equipment (including antennas) in certain configurations. This authorization does not cover all possible combinations of equipment and, in particular, covers only specific antenna configurations. Should a user desire to use the RF Module in a configuration not yet approved, TI can assist that customer to obtain the necessary equipment approval.

Please contact Texas Instruments, if you would like our assistance on these issues.

Warning

Care must be taken when handling the RF Module. High voltage across the antenna terminals could be harmful to your health. If the antenna insulation is damaged it should not be connected to the RF Module.

Caution

This product is subject to damage by electrostatic discharge (ESD), it should only be handled by ESD protected personnel at ESD secured workplaces.

The transmitter power output stage can be damaged, if the antenna terminal A1 has a short circuit either to the ground or to the supply voltage and no current limitation is applied.

The transmitter power output stage can operate only with a limited duty cycle. This subject needs to be given attention especially during the antenna tuning procedure.

The ground pins GNDL and GNDP have to be connected externally to avoid damage of the RF Module.