

Series 2000 Standard Radio Frequency Module



Description

The Series 2000 Standard Receive / Transmit Module is the interface between a 134.2kHz HDX/ FSK transponder and the controller board as data processing unit. It sends through a connected antenna an energizing signal to the transponder, modulates the RF signal to send data to the transponder, receives the identification signal and processes it for digital decoding. The RF Module can be used together with the controller board RI-CTL-MB2A or -MB6A.

Specifications:

	RI-RFM-104B
Operating Temperature	-25 to +70°C
Storage Temperature	-40 to +85°C
Relative Humidity	<97% non-condensing, IEC 68-2-30 Test Db, 21 cycles
RF Transmit Frequency	134.2 kHz
Power Supply	Logic Part: 6 to 25 Vdc, regulated TX Power Stage: 5 to 14 Vdc, regulated
Antenna Tuning Range	26 to 27.9 μH
Antenna Q ; I	min. 100 ; 116 to 119μH
Antenna Resonance Voltage allowed	Max. 240 Vpeak
Transponder Types	134.2 kHz HDX/FSK
Related Documentation	11-06-21-035 Reference Guide Standard RF Module RI-RFM-104B 11-06-21-037 Reference Guide Control Modules RI-CTL-MB2A / RI-CTL-MB6A
Dimensions	(82 mm x 81 mm x 36 mm) ± 1.5 mm
Weight	approx. 170 grams
Approval	CE; FCC; (As part of the Series 2000 Reader RI-STU-MB2A / MB6A)

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: <http://www.ti-rfid.com>

Texas Instruments reserves the right to change its products and services at any time without notice. TI provides customer assistance in various technical areas, but does not have full access to data concerning the uses and applications of customers products. Therefore, TI assumes no responsibility for customer product design or for infringement of patents and/or the rights of third parties, which may result from assistance provided by TI.