MD7121-F06

2.4GHz 15dBm FSK/GFSK Transceiver

1. General Description:

The MD7121-F06 module is designed for 2.GHz ISM band with 9.43dBm output power wireless application using AMIC-COM A7121 GFSK transceiver and PA AP1110 RFIC. This module features a fully programmable frequency synthesizer by SPI. The data rate is 3Mbps.

2. Electrical Specification

Item	Specification	Remark
Supply voltage	3.3V +/-0.1(V)	
Current consumption	15uA @ Sleep mode (Sleep current includes power consumption of LDO) 1.7mA @ Standby-mode 11mA @ Synthesizer mode 105mA @ Tx power = 9.43dBm 36mA @ Rx mode	ISM Band
Frequency	2414.250 –2464.875MHz	ISM band
Transmit output power	9.43dBm @ Maximum Power setting	Typical
Rx sensitivity	-95dBm (Typical) @ 1M mode, Dev = 250K	BER <=1E-3, FSK
Modulation	GFSK	
Interface	20pin 1,27mm header	
PCB Dimension	29(L) x 29(W) x 0.8(H) mm^3 without antenna	
Operation Temperature	0~50C^o	

FCC 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.

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

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.

Please notice that if the FCCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains FCC ID:RII24RFMDLV01 , IC : 8102A-24RFMDLV01" any similar wording that expresses the same meaning may be used.

The antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. End-Users must be provided with transmitter operation conditions for satisfying RF exposure compliance.

IC Statement:

This device complies with Industry Canada license-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.

Cet appareil s'accorde avec Industrie Canada licence-exempte RSS standard.
(1) cet appareil ne peut pas causer l'intervention, et
(2) cet appareil doit
accepter de l'intervention, y compris l'intervention qui peut causer l'opération
non désirée de.

This Class【B】 digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.