

DR2.4 :

The DR2.4 module is designed for 2.4GHz ISM band with 10dBm output power wireless applications using AMICCOM A7125 FSK transceiver and Transistor BFG425 PHILIPS. This module features a fully programmable frequency synthesizer by SPI. The data rate is 2Mbps.

External PA Control

To gain the most available hopping channels under FCC / ETSI regulations, user has to switch off Ext-PA before A7125's PA (Em-PA) to minimize spurious emission. In the other words, band edge becomes critical so that A7125 supports two methods (EOPD and PASW) to let user switch Ext-PA easily.

(1) EOPD (End Of Packet Delay)

Set GIO2S = [1100] and EOPDS=1, then EOPD outputs 20 us pulse to GIO2 pin

(2) PASW (Ext-PA Switch)

Set GIO2S = [0001] and EOPDS=1, then PASW outputs to GIO2 pin. However, GIO2 Pin Register shall set different in TX mode (0x07) and RX mode (0x13) to avoid FSYNC triggering in RX mode. Therefore, before issue TX Strobe command, write 0x07 to GIO2 Pin Register. Before issue RX Strobe command, write 0x13 to GIO2 Pin Register. Then, PASW is only active in TX mode. In such case, user just needs to connect GIO2 pin to external SWITCH (Ext-SW) of Ext-PA as show below. Be notice, PASW is also able to output to GIO1 pin. In addition, user can configure PASW to be active high or active low (by GIO2I) based on the polarity of Ext-SW.

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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.

CAUTION:

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

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.

Label for end product must include "Contains FCC ID: NTMDR-600" or "A RF transmitter inside, FCC ID: NTMDR-600".