

RFD21735 technical description

The RFD21735 SMT RF Module employs a 2.4 GHz radio transceiver combined with an in-line 8051 microcontroller which allows the user to send and receive data through the controller's UART and general purpose IO lines.

The radio uses a 16 MHz crystal.

Radio and controller are powered through a 1.8V regulator. Power requirements: 1.9 to 3.6Vdc, 14/17mA (transmit/receive).

RF output: GFSK-modulated 2402 to 2481 MHz, 0dBm.

The module has a solid ground plane on the inner layer of the PCB, and has a metal shield covering the components which are attached to the PCB. The RF signal is brought out to a SMT pin on the module through which it is connected to a max. 5dBi gain whip antenna (Microchip TRF1002, Pulse Electronics W1010, etc.) at which time it is integrated into a completed product.