Schematic description of AM041670300 Wireless RS232

The function of AM041670300 wireless is transfer the RS232 by wireless. The Wireless RS232 is operated in a pair.

The RS232 Data of PC is connected to JP2, +/-12V RS232 data is converted to 2.5V via Q3 and received by IC3 (MCU ATMEGA48), The MCU process the data and then transfer it to IC1(RF transceiver module MICRF505). IC3 then transmit the data form MCU via the antenna.

The modulating method is FSK with +/-100KHz modulation, and the operating frequencies are 913, 915, 917 or 917MHz, depend on the software selection.

If wireless data is received by the RF transceiver module, it then transfer to the MCU, MCU will process the data and put it on the TX line and transfer to RS232 voltage level by Q1 and Q3. RS232 data is sent out via JP2.

The Operating voltages for ATMEGA48 and MICRF505 are 2.5V, each one is supplied by a 2.5V voltage regulator AME8800DEET.

The Operating frequency for the MCU ATMEGA48 is 8MHZ and the fundamental frequency for the RF transceiver module MICRF505 is 16MHz.