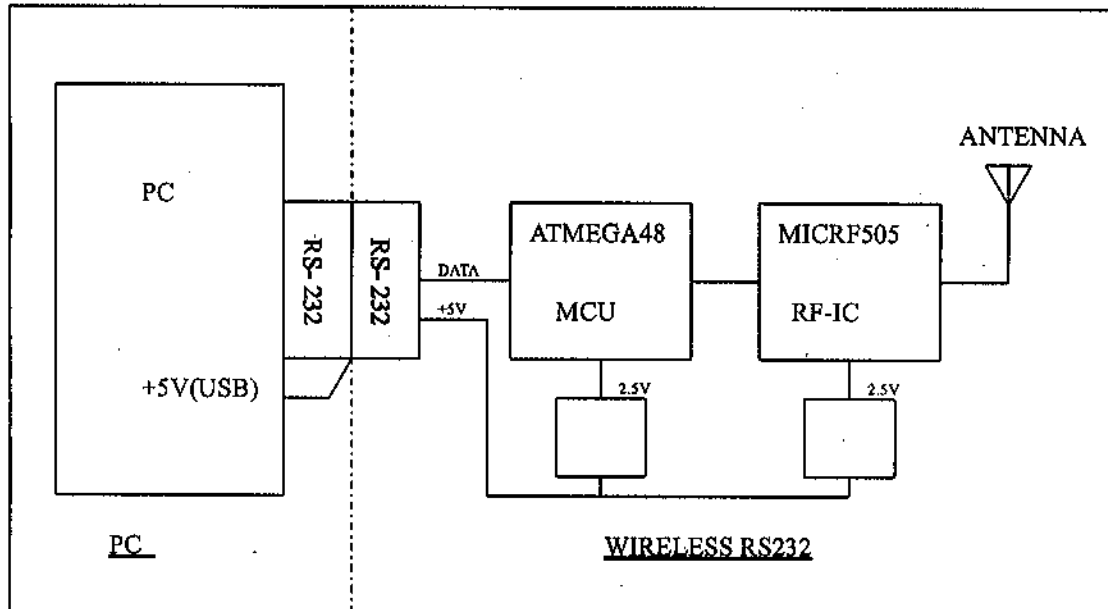


## Block Diagram

### AM041670300 Wireless RS232 Operation



### BlockDiagram for Wireless RS232

#### Specification / Operations:

1. The Operating mode for the whole system is half-duplex
  2. The Baudrate for RS232 is 38400 bps .
  3. The Bitrate for RF modulation is 20000 bps
  4. The Modulating method is FSK with modulated frequency +/-100KHz
  5. The Operating center frequencies are
    - Channel 1 : 913MHz
    - Channel 2 : 915MHz
    - Channel 3 : 917MHz
    - Channel 4 : 919MHz
  6. MCU Operated at 8MHz
  7. Reference Frequency of RF IC is 16MHz
  8. Input Voltage is 5V from USB port (max 50mA)
6. TX mode :
 

Once there is data coming into the RS232 port at a baudrate of 38400 bps, MCU will received it and then transfer to the RF IC, and the RF IC will sent out via the Antenna with FSK modulation at the selected frequency.
  7. RX mode:
    - The RF IC will stay in RX mode if no data is transmitting
    - When data with the same frequency and modulating mode is received, it will then transfer to the MCU, MCU will send the data to the RS232 port at 38400 bps.

- END-