ZKit-51 RS232 Transceiver

User Manual

1.0, June 2009

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Chapter 1. ZKit-51 RS232 Transceiver

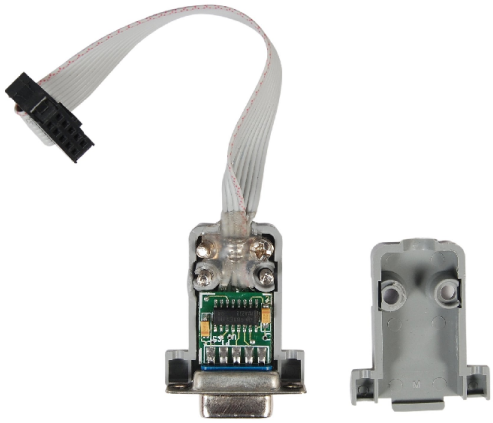
1. Overview

The RS232 Transceiver provides RS232 level conversion, and allows ZKit-51 to connect directly to RS232 port of other devices.

2. Board Features

- TTL-RS232 transceiver
- DB-9 female connector
- Powered from ZKit-51 Motherboard
- Compact board, accommodated within the D-shell of the connector

Figure 1.1. Inside the connector shell



3. Power Supply

The RS232 Transceiver is powered from the motherboard using FRC-10. In FRC-10 connector the first and tenth pins are used for VCC and GND respectively.

4. Connectivity

RS232 Transceiver interfaces to the ZKit-51 SIO/I2C Header using FRC-10 connector.

4.1. Switch Settings

The serial TX and RX lines of the microcontroller are generally routed to the USB serial interface. But if the RS232 Transceiver is to be used, the TX and RX lines should be routed to the SIO/I2C header. This can be done by setting all switches in USBSIO to OFF position.

Figure 1.2. Signal connection diagram

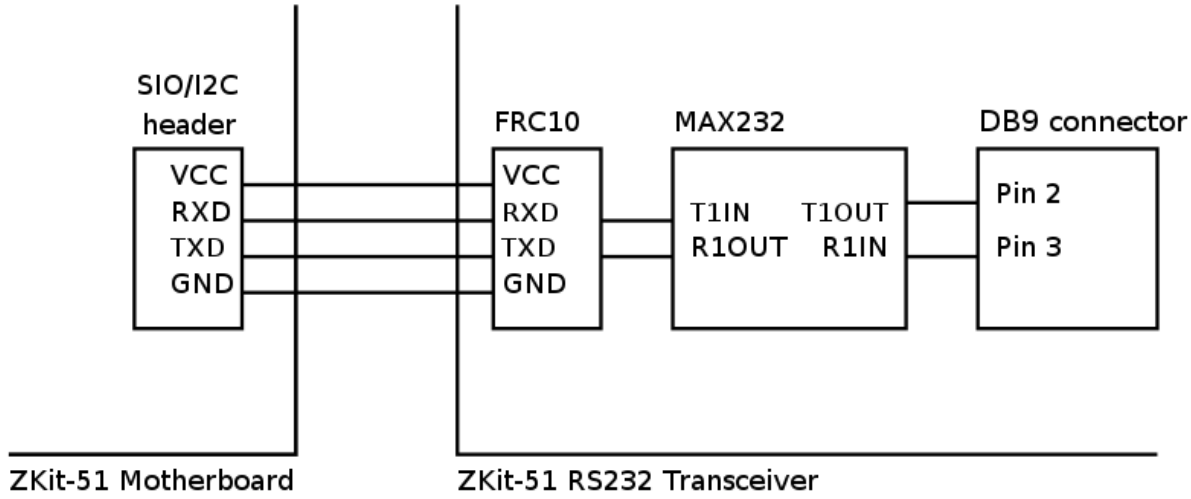


Table 1.1. Signal connection table

Pin#	Motherboard	RS232 Transceiver
1	VCC	VCC
2	P3.0/RXD	RXD
3	P3.1/TXD	TXD
4	P1.6/SCL	-
5	P1.7/SDA	-
6	P1.0/T2	-
7	P1.1/T2EX	-
8	P1.3/CEX0	-
9	P3.2/INTR0	-
10	GND	GND