

Modification and testing of the Red Pitaya SDR with external clock

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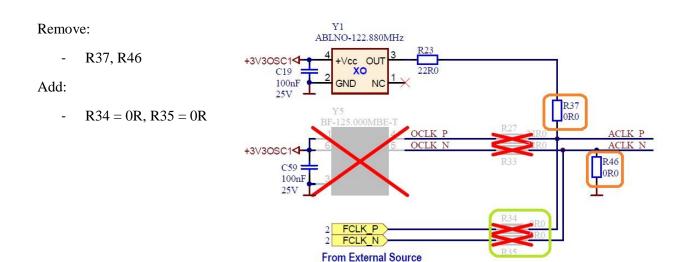
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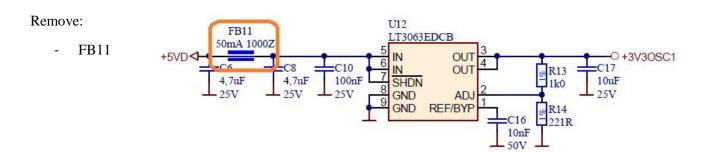
1. Preface:

Purpose of this document is to present modification of Red pitaya SDR, to note a special version which is using external sampling clock.

2. Modification

Modification is performed with STEM 122-16SDR, V1r1 that has already been tested following regular testing procedure.



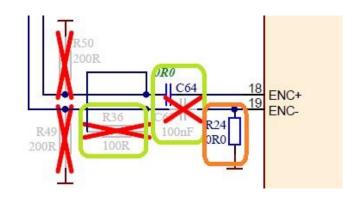


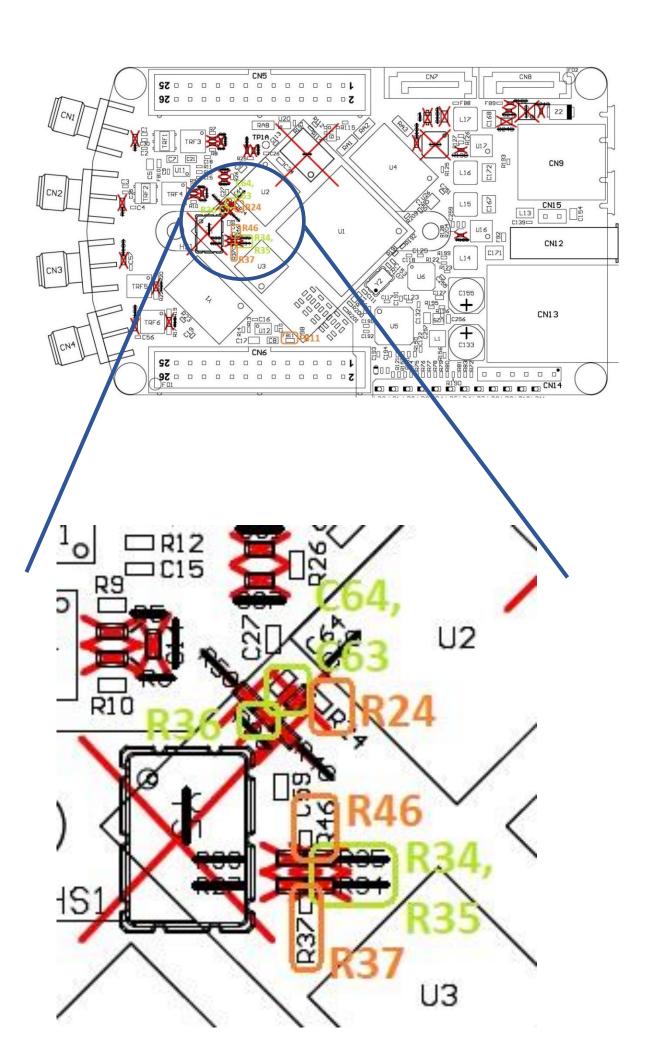
Remove:

0R on C64, R24

Add:

- C64 = 100nF, C63 = 100nF,
 R36 = 100R





3. Testing

(this is just a rought sketch of testing procedure steps, more detailed description will be prepared)

Insert SD card, connect ethernet cable and power supply.

Connect external oscillator to CN5 (E2) on Red pitaya.

Connect Out1 to In1 and Out2 to In2.

Open Red Pitaya application on web browser, start oscilloscope and signal generator. Check that the signal is aquired without distortion with proper signal level.

