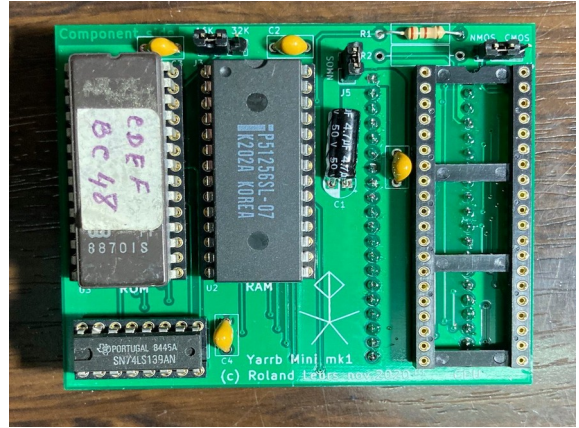


Yarrb Mini



The Yarrb Mini board is a simple memory expansion board with 16K ROM (C-D-E-F blocks) and 32K RAM (#0000 – #7FFF). This board is designed for usage in an unexpanded Atom that does not use any external I/O expansions.

A. Build instructions

Building the Yarrb Mini board is quite straight forward. Just make sure that you start with the header pins on the solder side:

1. Put the 20 pin headers into the 40 pin IC socket. This way you fixate the pins so that they will fit into the CPU socket.
2. Place the headers on the solder side of the board and solder them on the component side. It is quite important that you do this before soldering the 40p CPU socket.
3. Install R1 or use a wire bridge. This resistor is for reducing spikes in the phi2 signal. R2 is only necessary when you install a W65C02 processor.
4. Solder the IC sockets, capacitors and jumpers.
5. Install the IC's in the sockets and place the jumpers.

B. Preparing the Atom

1. Remove the 6502 (IC22)
2. Remove the MOS and BASIC ROM (IC21)
3. Remove the floating point ROM (if present)
4. Remove IC10 to 19, IC51 and 52 (2114's)
5. Remove IC6 (74LS138)
6. If you have fitted IC2 – 5 then remove them also
7. (optional) When you need any external I/O you can make a wire bridge between IC49 pin 7 and IC5 pin 8. This will enable the bus buffer for the I/O block #BC00 – #BFFF. In this case it is necessary (and safe) to fit IC2, 3 and 4.

C. Installing the board

1. Install the 6502 in the 40p socket of the Yarrb Mini board
2. Install the Yarrb Mini board into the 6502 socket on the Atom main board

D. Circuit diagram

