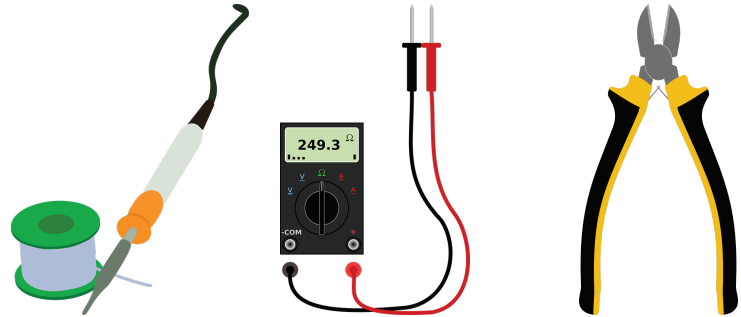


OMEN Alpha

Assembly instructions



1. You will need:



2. Solder sockets for integrated circuits.

Sockets and pinheaders are not included in the kit!

3. Test all soldered connections:

- ☐ Test if all pins are well connected.
- ☐ Check if GND is not short connected to Vcc
- ☐ Check if every IC has properly connected GND and Vcc

4. Solder all pasive parts (capacitors, diode, resistors, pushbutton, crystal)

5. Connect the power (+5 V) and check.

6. Insert the CPU into the socket and try to power it up. Check the oscillator (CPU pin 37).

7. Insert the essential ICs: 74245, 74573, 7400, RAM 62256 and EEPROM 28C256 (programmed)

8. Connect the UART 68B50 and the TTL-USB interface (three wires: TxD, RxD and GND)

9. Connect the serial USB to your PC and set it (115200 Bd, 8 data bits, no parity, 1 stop bit. Use Teraterm, Putty, or other serial terminal)

10. Power the Alpha and check the terminal.