

Close JP2 to fix compatibility issues with certain RS232C interfaces (see Manual).

The Apple-1 Software Library (Apple1Software.com) makes it easy to browse, transfer and run software instantly on an Apple-1.

Use an RS232 null modem cable to connect the board to the modern computer. Can be used in combination with a USB to RS232 converter as well.
By default (without JP1 set), the RS232 interface is configured to run at 57600 baud, 7 data bits, even parity, with 2 stop bits (7E2). Configure this in the terminal program, like minicom.
Configure a (minimal) new line delay of 200ms and a character delay of 20ms.

Notice the 20 MHz variant of the ATtiny.

LED D3 indicates an error has occurred while receiving the serial data. This error can either be a Frame Error, a Data Overrun or a Parity Error. Reset the error state by toggling (using SW1) to Keyboard and back to Terminal.

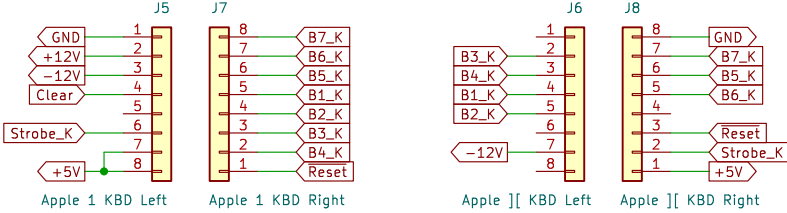
Set jumper JP1 to activate slow mode: the bit rate is lowered to 9600 bps instead of 57.6 kbps.

Terminal control characters:
*E: toggle serial echo on/off
*R: reset attached Apple-1 or][
*C: clear screen on the Apple-1
*Q: reset, clear screen sequence for the Apple-1
*K: toggle to keyboard input (or press SW1)
For more options see the Manual.

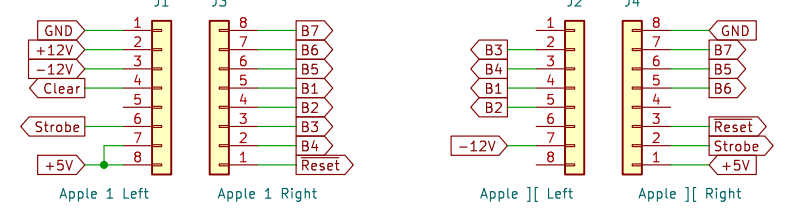
Use SW1 to toggle between Terminal input or normal Keyboard input. The LED shows the active input. Solder points are available to externalize SW1.

Solder points are available to externalize LEDs D1 and D2.

From Keyboard (component side)



To Apple (solder side)



Quickly get to the real fun. Copy-paste software and send keystrokes from a modern computer to an Apple 1 or Apple][through a serial (or USB) interface.
This work is inspired by the ASCII to PS/2 Keyboard Adapter of Mike Willegal. See for more information: <https://www.willegal.net/appleii/appleii-kb-int.htm>

8BitFlux.com / Bobby Nijssen

Sheet: /
File: KeyboardTerminalAdapter-v2.kicad_sch

Title: Keyboard Serial Terminal

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