TMT LOGiC AMSDAP42

The AMSDAP42 is developed in cooperation with Prodatron and TMTLOGIC

With this board it is possible to use MSX hardware on the CPC computer. This only applies to hardware that uses the IO bus of the Z80.
The board contains a DC / DC converter that provides the +/- 12v for MSX hardware
the maximum current is 84mA
Hardware which is using the MSX specific slot technology (like memory mappers) is not supported.
The I/O address range of MSX hardware is placed at &FFxx
Example: MSX I/O port address &20 == CPC I/O port address &FF20
AMSDAP provides the full power of 5V for CPC hardware instead of 4,xV. By using switches, there is no voltage loss caused by a diode.

The MSX slots are buffered with line-drivers. This is to improve the signals from the CPC.
Furthermore, there is a socket for a 3.579545 Mhz crystal, specifically for the MSX clock.
This is for sale at Mouser 732-531P 3.579545MCR.

AMSDAP 42

Switch functions

With the left switch you select the source power, which comes either from the CPC or the USB connector. The right switch is for turning off the USB power without removing the cable.

How to use:

Example
- if you want to use the CPC power
  set the switches according to figure 0-0 or figure 0-1

- if you want to use the USB power
  1. connect cable
  2. set the switches according to figure 1-0 or figure 1-1
  3. switch on the CPC

We recommend to use the USB connector as the power source.

AMSDAP 42

Function description of the switches:

- The power from the CPC computer is used directly by the AMSDAP
  Note, when the power below the 4,6 V is, there are problems for the DC/DC converter and the SE-ONE or another hardware.
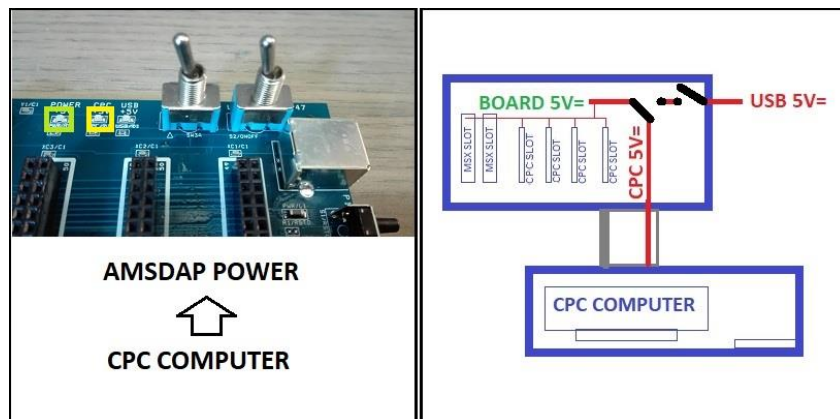

Figure 0-0

- The same as above, only different is the power switch of the USB is active, which has no effect in this case.
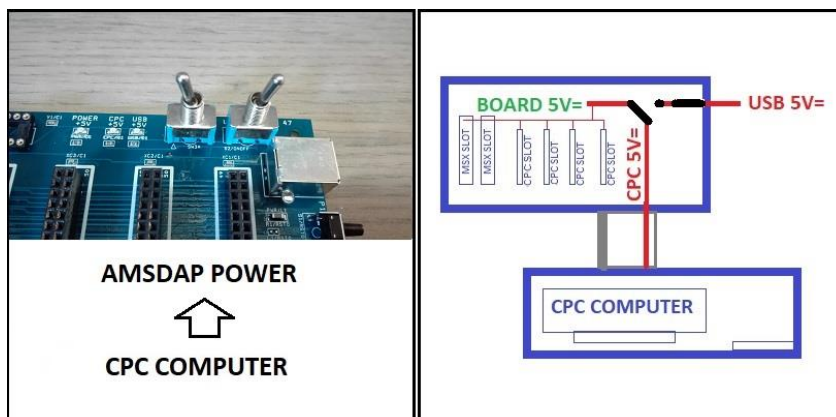

Figure 0-1

AMSDAP 42

Function description of the switches:

- The USB power is selected but the USB input switch is OFF
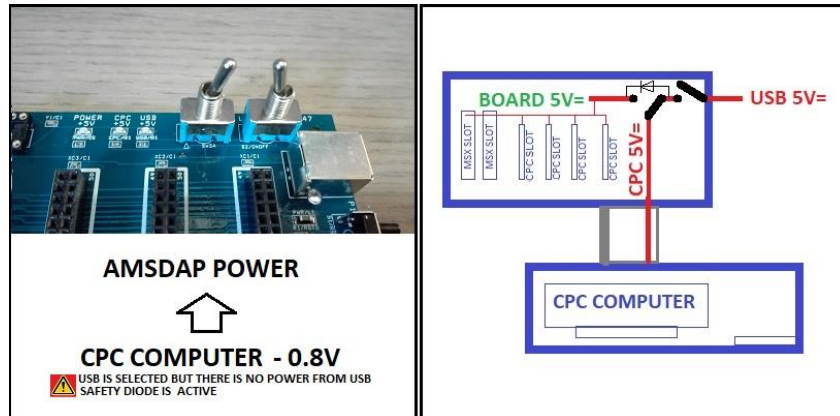 To protect your hardware there is a safety diode on board for this situation
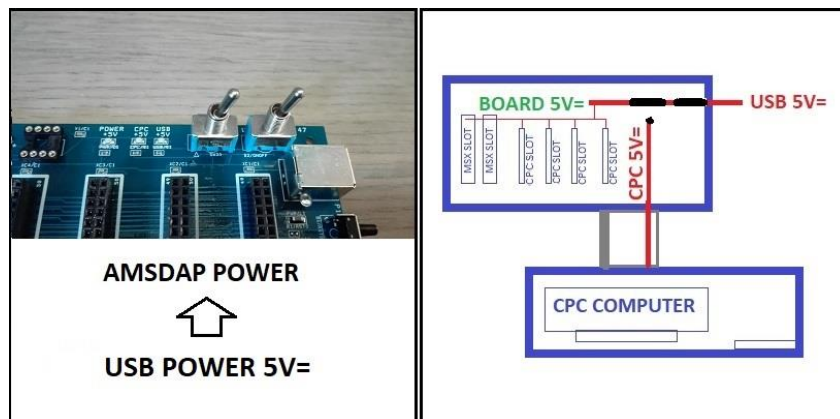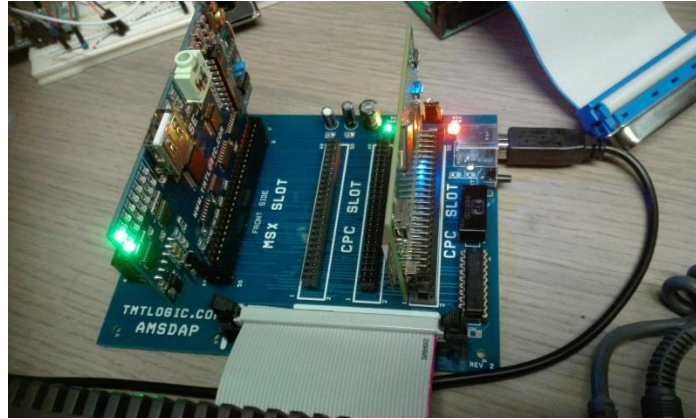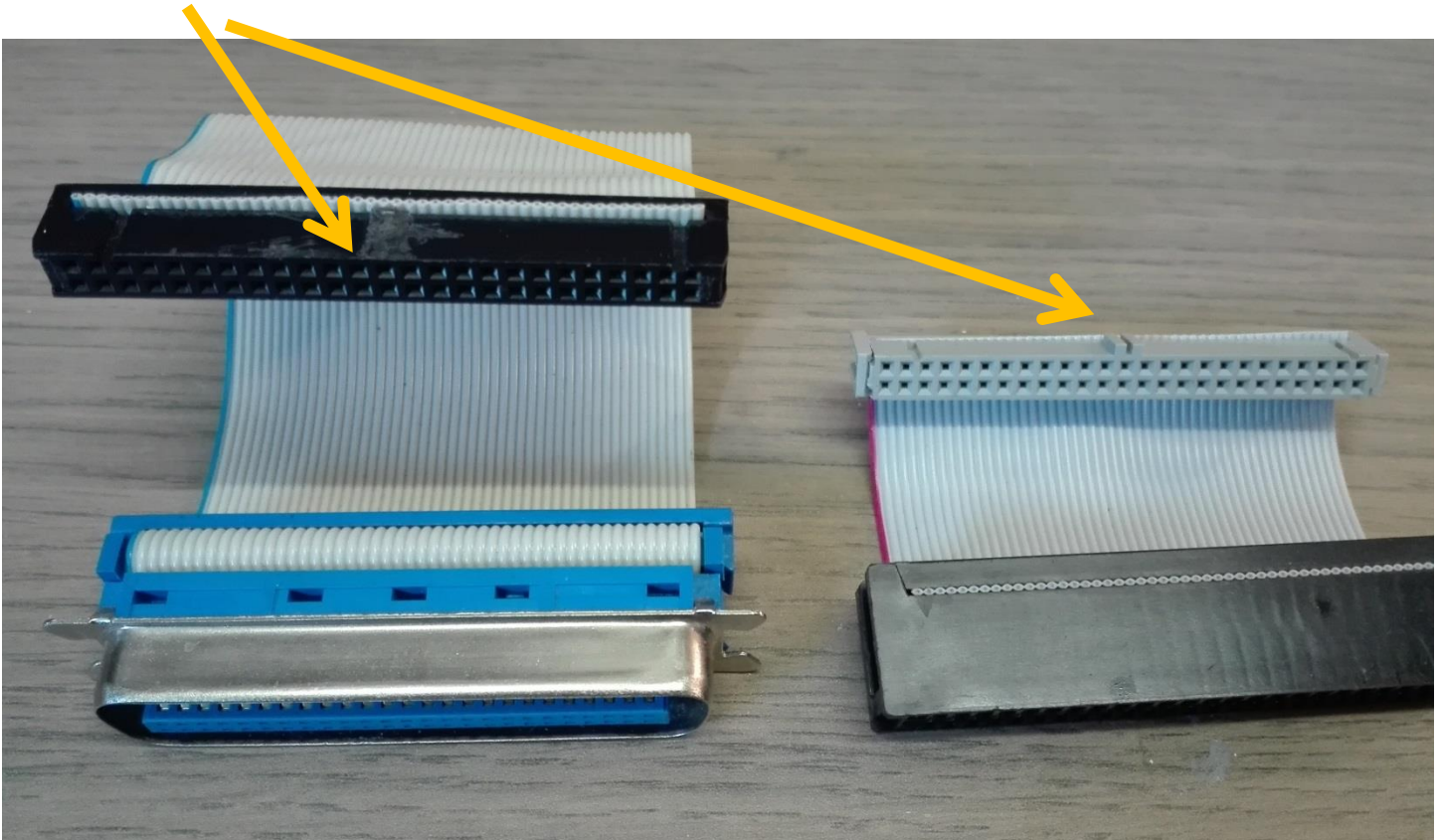

Figure 1-0
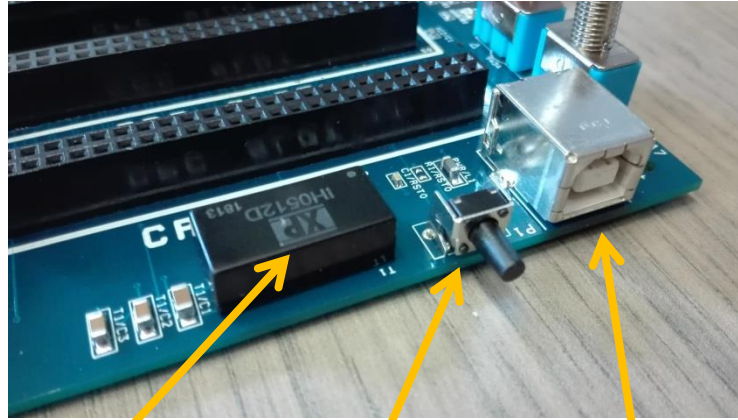
- The power comes from USB 5V
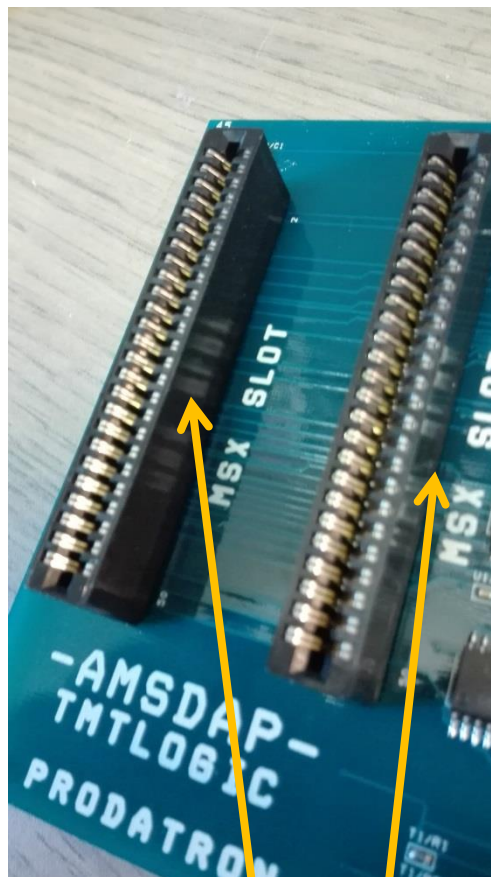

Figure 1-1

AMSDAP 42

Cable pictures for CPC Amstrad or Schneider

Remove this lip, the main Mother X4 pin 1 is not the pin 1 of the connector ''>''
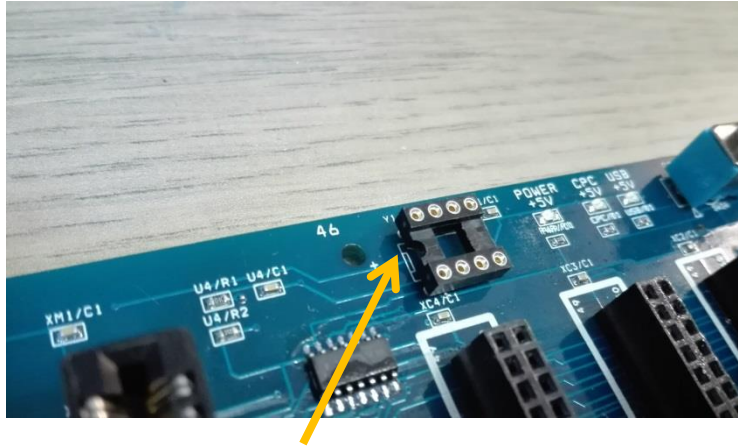
AMSDAP 42

DC/DC converter   CPC RESET Button   USB power socket

MSX slots front side

AMSDAP 42

Socket for MSX 3.579545 Mhz crystal module

Furthermore, there is a socket for a 3.579545 Mhz crystal, specifically for the MSX clock.
This is for sale at Mouser 732-531P 3.579545MCR