MSX Edge connector
(Cartridge)

JP1

EDGE CONN

EEPROM that can be re-written
by software using the AT28C256
programming software from the
MSX-DOS prompt

+5V
U1
AT28C256
VCC
GND

CPLD to decode MSX BUS and
serial-paralell conversion
between MSX and Rasberry Pi

+3.3V
EPM3064ALC44

PD/_VCC
GCLK1
GCLR/
OE1
OE2-GCLK2

+3.3V
VCC@1
VCC@2
VCC@3

GND@1
GND@2
GND@3
GND@4
GND@5
GND@6

+5V

Jumpers to select ROM Bank,
and enable the EEPROM for writing.

J1

Connector for the USB-Blaster
to program the CPLD

TDI TMS TDO TCK

+5V   +5V

R1 10K
R2 10K
R3 10K
R4 10K

JP2

JTAG

Pullups for the EEPROM
Control signals

+5V   +5V   +5V

R5   R6   R7
10k   10k   10k

/MEM_WE /MEM_OE /MEM_CE

Flashing Led, driven
by the SPI_Clock signal.

LED1   R8   SPI_CLK
          470

Decoupling capacitors for
the EEPROM (5V) and CPLD (3v)

0.1uf 0.1uf 0.1uf 0.1uf
C4   C5   C7   C8   +3.3V

C6   +5V

Voltage converter 5v to 3.3v
to power the CPLD

C1   C9   C2   C3
100nf 100uf   100uf 100nf

LD117A
IC1
IN OUT
    ADJ

+5V   +3.3V

Solder pads for the Raspberry Pi

SPI_CS SPI_CLK SPI_MOSI SPI_MISO SPI_RDY +5V

Mounting holes for RPI

MSXPi Interface V1.0.1 Rev.1 (13/12/2022)
RCC @ 2022

MSXPi interface - connect MSX computer to Raspberry Pi
EEPROM AT28C256 re-writeatable from MSX-DOS
EEPROM software: https://github.com/costarc/msxcart_flash32k