

Adapter PROT_A1

Crossadapter between EzoFlash+ programmer and 8-bit flash adapters to provide memory chip operations in *High Voltage A9 Autoselect Mode*, hardware sector protection and unprotection.

1. Part list.

R1, R3, R4, R6, R8, R9, R11, R13, R14, R17, R19, R20, R22, R23, R24, R25 - Resistor 2k2
R2, R7, R12, R18 - Resistor 4k7
R5, R10, R15 - Resistor 1k5
R16 - Resistor 470
R21 - Resistor 100
Q1, Q3, Q5, Q7 - Transistor BC557
Q2, Q4, Q6, Q8, Q9 - Transistor BC547
D1...D6 -Diod 1N4148 or KD522
BU1- Straight pin-header, division 2x16, division 2.54
BU1- Straight pin-header, division 1x5, division 2.54
BU3 - Strip connector socket 2x16, division 2.54
BU4 - Strip connector socket 2x16, division 2.54
BU5 – Straight pin-header, division 2.54, 2x16

2. Description

The Autoselect Mode requires Vpp on adress pin A9, hardware sector protect/unprotect mode - Vpp on some control pins (OE#, WE#, CE#) additionally.

A range of adress lines is not used in memory chip high voltage mode. These programmer adress lines are assigned to drive voltage switches on the crossadapter. The programmer adress line A2 enable Vpp voltage to chip A9, A3 to OE#, A4 to WE#, A10 to CE#. Adress line A11 grounds chip CE#. The pulse from programmer WE# line is forwarded to chip WE# and CE# pins.

Supported 8-bit flash memory adapters : tsop32d, dip32a, plcc32a, tsop40a3, tsop40b2, psop44b2. Use online chip database to find chip related adapter and high voltage method (A9) is supported, Main brands with chip high voltage support – AMD, Fujitsu, ST Micro, Amic, EON, Hynix .

The software **hvasm.exe** allow read chip ID and status, protect and unprotect flash memory sectors permanently. File readme.txt indicates latest SW version , supported and verified chips.

Chip ID and sectors status can be read with SW 0.97ja in Test H/W mode.

3. Schematic, PCB and pictures



