Adapter TSOP-48_D3

EzoFlash+ adapter for 16 bit and 8/16 bit flash memory in TSOP-48 and TSOP-56 packages.

1. Part list.

IC1, IC2 - 74HC245

IC3 - 74HC573

IC4 - 74HC14

D1, D2 - 1N1418 or KD522

R1 - 9k1 or 10k

R2 - 1k

R3, R4, R5, R6 - 2k2

R-PACK1, R-PACK2 - 6k8 x 9 or 6k8..10k x 8

C1 - 220n

BU5 - Straight pin-header 2x16, division 2.54

BU7 - Straight pin-header 1x5, division 2.54

Jp A...F - Straight pin-header 1x8, division 2.54 / Jumper (3pcs)

Jp H - Straight pin-header 1x2, division 2.54 / Jumper (1pc)

Optional:

IC Socket DIL-14

IC Socket DIL-20 (3pcs)

Surface Mount 0.5mm TSOP-48 Socket Meritec 980020-48-01

Surface Mount 0.5mm TSOP-56 Socket Meritec 980020-56-01

Solder chip on adapter contactpads or apply socket.

Note. Extra contactpads are used according tsop56 layout - pin1, pin2, pin29.

Check and don't apply extra contactpads for tsop48 chips or TSOP-48 Meritec socket!

Don't apply TSOP-56 Meritec socket for tsop48 chips, unable center chip in socket!

2. Description and info.

Adapter tsop48d3 replaces adapter tsop48d2.

Added tsop56 support and jumpers for partial read and write of high density (64 and 128Mb) memory in 32Mb blocks.

 $A dapter\ and\ SW\ provide\ high/low\ byte\ load\ ,\ word\ programming\ and\ low/high\ byte\ read.$

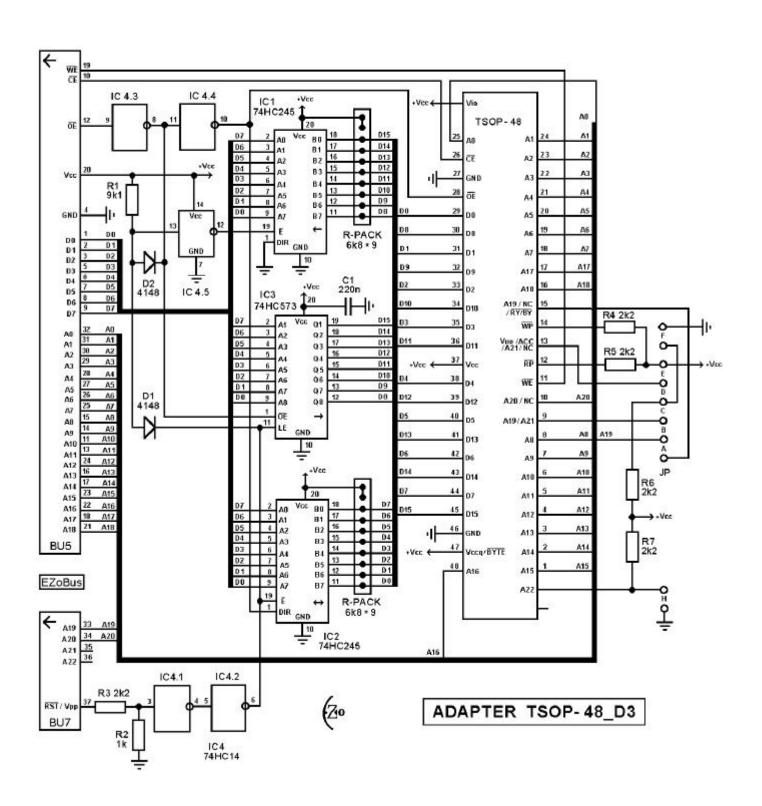
In programming (OE#=log1) Vpp pulse load (Vpp=high) and latch (Vpp=low) high byte on 74HC573.

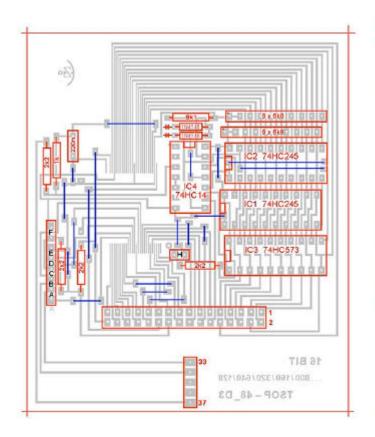
While read (OE#=log0) Vpp switch high (Vpp=high) and low (Vpp=low) byte.

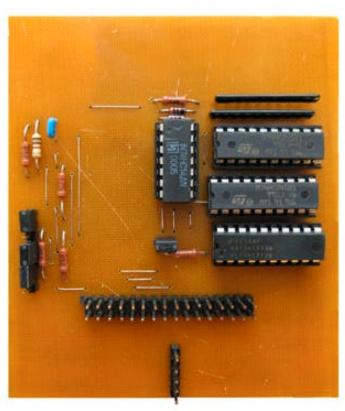
8/16 bit flash memory operates in 16bit mode, BYTE=log1.

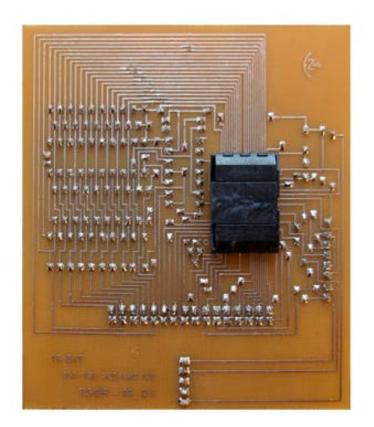
Adapter and SW don't support temporary sector unprotect mode (+12V on RST) for 29LV/29Fxxx chips.

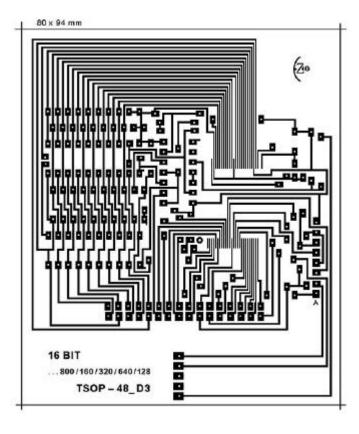
3. Schematic, PCB and pictures











4. Supported chip list

Willem programmer software version 0.97ja.

Verified chips on adapters tsop48d2 / tsop48d3 are underlined. Details find in chip_test file. Software may not support some chips, report problem in EZoFlash forum.

Selected device group (uniform)

Request Adapter 3.3V, Flash 16bit (LV) > SST39LF/VFx00 > ...

Request Adapter 3.3V, Flash 16bit (LV) > 29LVx00 > ...;

- Vcc=3.3V. Jumpers Jp2 (+3.6V), Jp5 (A18), JpB (pin9-A19)

SST SST39LF200A, SST39VF200, <u>SST39VF200A</u>, SST39LF400A, SST39VF400, <u>SST39VF400A</u>, SST39LF800, <u>SST39LF800A</u>, SST39VF800, <u>SST39VF800A</u>, SST39LF160, <u>SST39VF160</u>, SST36VF1601, SST36VF1601C, SST36VF1601E, SST36VF1601G, SST36VF1602C, SST36VF1602E, SST36VF1602G, SST39VF1601, SST39VF1601C, <u>SST39VF1602</u>, SST39VF1602C, <u>SST36VF3203</u>, SST36VF3204, SST39VF320, SST39VF3201, SST39VF3201B, <u>SST39VF3202</u>, SST39VF3202B

Selected device group (16bit, Vpp, boot block)

Request Adapter 3.3V, Flash 16bit (LV) > Intel 28Fx00 > ...

- Vcc=3.3V, Vpp=3.3V. Jumpers Jp2 (+3.6V), Jp5 (A18), JpAA (pin9-A21, pin15-A19)

Intel (TE,E) <u>28F800B3T</u>, <u>28F800B3B</u>, 28F800C3T, <u>28F800C3B</u>, <u>28F160B3T</u>, <u>28F160B3B</u>, 28F160C3T, <u>28F160C3B</u>, 28F320B3T, 28F320B3B, 28F320C3T, <u>28F320C3B</u>, 28F640B3T, 28F640B3B, 28F640C3T, 28F640C3B Macronix MX28F160C3T, MX28F160C3B, MX28F160C3BT, MX28F160C3BB Sharp LH28F400BG(H)E-TL, LH28F400BG(H)E-BL, <u>LH28F800BG(H)E-TL</u>, LH28F800BG(H)E-BL, <u>LH28F160BG(H)E-TTL</u>, LH28F160BG(H)E-BL, LH28F320BF(H)E-PTTL, LH28F320BF(H)E-PBTL, LHF00L12, LHF00L13, LHF00L14, LHF00L15, LHF00L28, LHF00L29, <u>LHF00L30</u>, LHF00L31 ST Micro / Numonix M28W800T, M28W800B, M28W800BT, M28W800BB, M28W800CT, M28W800CB, M28W160T, M28W160B, M28W160BT, M28W160BB, M28W160CT, M28W160ECB, M28W320BT, M28W320BB, M28W320CT, M28W320CB, M28W320EBT, M28W160EBB, M28W320ECT, M28W320ECB, M28W320ECT, M28W320ECB, M28W320FCT, M28W320FCB Winbond W28J161T, W28J161B

Selected device group (16bit, boot block)

Request Adapter 3.3V, Flash 16bit (LV) > 29LVx00 > ...;

Request Adapter 3.3V, Flash 16bit (LV) > 29Fx00 > ...;

- Vcc=5V. Jumpers Jp1, Jp3 (+5V), Jp5 (A18), JpB (pin9-A19)

 $\begin{array}{l} \textbf{Atmel} \ \underline{AT49F2048}, \ \underline{AT49F4096}, \ \underline{AT49F8192}, \ \underline{AT49F8192T}, \ \underline{AT49F1604}, \ \underline{AT49F1604T} \\ \textbf{Winbond} \ \underline{W49F201} \end{array}$

- Vcc=2.7-3.6V. Jumpers Jp2 (+3.6V), Jp5 (A18), JpB (pin9-A19)

Actrans AC39LV800 **Atmel** AT49LV2048, AT49LV2048B, AT49BV2048, AT49BV2048B, AT49LV4096, AT49BV4096, AT49LV8192, AT49LV8192T, AT49BV8192, AT49BV8192T, AT49LV160, AT49BV160, AT49BV160T, AT49BV160C, AT49BV160CT, AT49BV160D, AT49BV160DT, AT49BV1604A, AT49BV1604AT, AT49LV320, AT49BV320, AT49BV320T, AT49BV320A, AT49BV320AT, AT49BV320C, AT49BV320CT, AT49BV320DT **Hynix** HY29LV320T, HY29LV320B **Winbond** W49L201, W49L401, W49L401T

Selected device group (8/16bit, boot block)

Request Adapter 3.3V, Flash 16bit (LV) > 29LVx00 > ...;

Request Adapter 3.3V, Flash 16bit (LV) > 29Fx00 > ...

- Vcc=5V. Jumpers Jp1, Jp3 (+5V), Jp5 (A18), JpB (pin9-A19)

Alliance AS29F200T, AS29F200B AMD AM29F100T, AM29F100B, <u>AM29F200T</u>, AM29F200B,

 $AM29F200AT, AM29F200AB, AM29F200BT, \underline{AM29F200BB}, \underline{AM29F400T}, \underline{AM29F400B}, \underline{AM2$

AM29F400AT, AM29F400AB, AM29F400BT, AM29F400BB, AM29F800T, AM29F800B,

AM29F800BT, AM29F800BB, AM29F160DT, AM29F160DB, **Amic** A29400TV, A29400UV,

<u>A29800TV</u>, <u>A29800UV</u>, **Atmel** AT49F2048A, AT49F4096A, AT49F8192, AT49F8192T, AT49F8192A, AT49F8192AT, AT49F8011, AT49F8011T, AT49F1614, AT49F1614T **Bright** BM29F400T,

BM29F400B **EON** EN29F800T, EN29F800B **Fujitsu** (MBM) 29F200T, 29F200B, 29F200TC,

29F200BC, 29F400T, 29F400B, 29F400TA, 29F400BA, 29F400TC, 29F400BC, 29F800T, 29F800B, 29F800TA, 29F800BA, 29F160TE, 29F160BE Hynix HY29F400T, HY29F400B, HY29F400AT, HY29F400AB, HY29F800T, <u>HY29F800B</u>, HY29F800AT, HY29F800AB MacronixMX29F100T, MX29F100B, MX29F200T, MX29F200B, MX29F400T, MX29F400B, MX29F400CT, MX29F400CB, MX29F800T, MX29F800B, MX29F800CT, MX29F800CB Mitsubishi M5M29FT800, M5M29FB800, M5M29FT160A, M5M29FB160A Mosel Vitelic V29C51400T, V29C51400B ST Micro / Numonix M29F100T, M29F100B, M29F100BT, M29F100BB, M29F200T, M29F200B, M29F200BT, M29F200BB, M29F200FT, M29F200FB, M29F400T, M29F400B, M29F400BT, M29F400BB, M29F400FT, M29F400FB, M29F800AT, M29F800AB, M29F800DT, M29F800DB, M29F800FT, M29F800FB, M29F160BT, M29F160BB, M29F160FT, M29F160FB Texas Instr. TMS29F400T, TMS29F400B **Toshiba** TC58F400, TC58F401 - Vcc=2.7-3.6V. Jumpers Jp2 (+3.6V), Jp5 (A18), JpB (pin9-A19) ACTrans AC29LV160T, AC29LV160B, AC29LV320T, AC29LV320B Alliance AS29LV400T, AS29LV400B, AS29LV800T, AS29LV800B, AS29LV160T, AS29LV160B, AMD AM29LV200T, AM29LV200B, AM29LV200BT, AM29LV200BB, AM29LV400T, AM29LV400B, AM29LV400BT, AM29LV400BB, AM29LV800T, AM29LV800B, AM29LV800BT, AM29LV800BB, AM29LV800DT, AM29LV160B, AM29LV160T, AM29LV160B, AM29LV160BT, AM29LV160BB, AM29LV160DT, AM29LV160DB, AM29LV160MT, AM29LV160MB, AM29LV320DT, AM29LV320DB, AM29LV320MT, AM29LV320MB Amic A29L400TV, A29L400UV, A29L800TV, A29L800UV. A29L160TV, A29L160UV, A29L320T, A29L320U, A29L320AT, A29L320AU Atmel AT49LV2048A, AT49BV2048A, AT49LV4096A, <u>AT49BV4096A</u>, AT49LV8192A, AT49LV8192AT, <u>AT49BV8192A</u>, AT49BV8192AT, AT49LV8011, AT49LV8011T, AT49BV8011, AT49BV8011T, AT49LV161, AT49LV161T, AT49LVBV161, AT49BV161T, AT49LV1614, AT49LV1614T, <u>AT49BV1614</u>, <u>AT49BV1614T</u>, <u>AT49LV1614A</u>, AT49LV1614AT, AT49BV1614A, AT49BV1614AT, <u>AT49BV162A</u>, AT49BV162AT, AT49BV163A, AT49BV163AT, AT49BV163D, AT49BV163DT, <u>AT49LV321</u>, AT49LV321T, AT49BV321, AT49BV321T, AT49LV3218, AT49LV3218T AT49BV3218, AT49BV3218T, <u>AT49BV322A</u>, AT49BV322AT, AT49BV322D, AT49BV322DT **EliteMT** F49L400UA, F49L400BA **EON** EN29LV400T, EN29LV400B, EN29LV400AT, EN29LV400AB, EN29LV800T, EN29LV800B, EN29LV800AT, EN29LV800AB, EN29LV800BT, EN29LV800BB, EN29LV800CT, EN29LV800CB, EN29LV160T, EN29LV160B, EN29LV160AT, EN29LV160AB, EN29LV160BT, EN29LV160BB, EN29LV320T, EN29LV320B, EN29LV320AT, EN29LV320AB, EN29LV320BT, EN29LV320BB ES1ES29LV400DT, ES29LV400DB, ES29LV400ET, ES29LV400EB, ES29LV800DT, ES29LV160DB, ES29LV160DT, ES29LV160DB, ES29LV160ET, ES29LV160EB, ES29LV320DT, ES29LV320DB Fujitsu (MBM) 29LV200T, 29LV200B, 29LV200TA, 29LV200BA, 29LV200TC, 29LV200BC, 29LV400T, 29LV400B, 29LV400TA, 29LV400BA, 29LV400TC, 29LV400BC, 29LV800T, 29LV800B, 29LV800TA, 29LV800BA, 29LV800TB, 29LV800BB, 29LV160T, 29LV160B, 29LV160TE, 29LV160BE, 29LV320TE, 29LV320BE, 29PL32TM, 29PL32BM Hynix HY29LV400T, HY29LV400B, HY29LV400AT, HY29LV400AB, HY29LV800T, HY29LV800B, HY29LV800AT, HY29LV800AB. HY29LV160T, HY29LV160B, HY29LV160BT, HY29LV160BB LinkSmart L29S400, L29S400B, L29S800, L29S800B, L29S160, L29S160B Macronix MX29LV400T, MX29LV400B, MX29LV400CT, MX29LV400CB, MX29LV401T, MX29LV401B, MX29LV800T, MX29LV800B, MX29LV800AT. MX29LV800AB, MX29LV800BT, MX29LV800BB, MX29LV800CT, MX29LV800CB, MX29LV160T, MX29LV160B, MX29LV160AT, MX29LV160AB, MX29LV160BT, MX29LV160BB, MX29LV160CT, MX29LV160CB, MX29LV160DT, MX29LV160DB, MX29LV161T, MX29LV161B, MX29LV320T,

MX29LV320B, MX29LV320AT, MX29LV320AB, MX29LV320CT, MX29LV320CB, MX29LV320DT, MX29LV320DB, MX29LV320MT, MX29LV320MB, MX29L8100T, MX29L8100B, MX29L1610T, MX29L1610B, MX26LV400T, MX26LV400B, MX26LV800T, MX26LV800B, MX26LV800AT, MX26LV800AB, MX26LV1600T, MX26LV160B, MX26LV160AT, MX26LV160AB Mitsubishi M5M29GT160B, M5M29GB160B Renesas M5M29KT331A, M5M29KB331A Sanyo LE28FV4101T, LE28FW4101T, LE28FW4101T Spansion S29AL004D..-01, S29AL004D..-02, S29AL016M..-01, S29AL016M..-02, S29AL016M..-03, S29A

S29AL032..-04, S29GL032A..-R3, S29GL032A..-R4, <u>S29GL032M..-R3</u>, S29GL032M..-R4 **ST_Micro / Numonix**M29W200BT, M29W200BB, M29W400T, <u>M29W400B</u>, M29W400BT, M29W400BB, <u>M29W400DT</u>, M29W400DB, M29W400FT, M29W400FB, M29W800T, <u>M29W800B</u>, <u>M29W800AT</u>, M29W800AB, <u>M29W800DT</u>, <u>M29W800DB</u>, M29W800FT, M29W800FB, M29W160BT, M29W160BB, M29W160DT, <u>M29W160DB</u>, M29W160EB, M29W160FT, M29W160FB, M29W320DT, M29W320DB, M29W320EB, M29W320FT, M29W320FB **Texas Instr.** TMS29LF800T,

TMS29LF800B **Toshiba** TC58FVT400, TC58FVB400, TC58FVT800, TC58FVB800, TC58FVT160, TC58FVB160, TC58FVT160A, TC58FVB160A **Utron** UT29L800AT, U29L800AB, UT29L1600AT, UT29L1600AB, UT29L3200AT, UT29L3200AB **Winbond** W19B320AT, W19B320AB, W19B320ST, W19B320SB, W19L320ST, W19L320SB

Selected device group – 8/16bit, dual bank, boot block Request Adapter 3.3V, Flash 16bit (LV) > 29LVx00 > ...; Request Adapter 3.3V, Flash 16bit (LV) > 29Fx00 > ...- Vcc=2.7-3.6V. Jumpers Jp2 (+3.6V), Jp5 (A18), JpB (pin9-A19) **AMD** AM29DL400BT, AM29DL400BB, <u>AM29DL800BT</u>, AM29DL800BB, AM29DL161DT, AM29DL161DB, AM29DL162DT, AM29DL162DB, AM29DL163DT, AM29DL163DB, AM29DL164DT, AM29DL164DB, AM29DL320GT, AM29DL320GB, AM29DL322DT, AM29DL322DB, AM29DL322GT, AM29DL322GB, AM29DL323CT, AM29DL323CB, AM29DL323DT, AM29DL323DB, AM29DL323GT, AM29DL323GB, AM29DL324DT, AM29DL324DB, AM29DL324GT, AM29DL324GB, Amic A29DL323TV, A29DL323UV, A29DL324TV, A29DL324UV Fujitsu (MBM) 29DL400TC, 29DL400BC, 29DL800TA, 29DL800TB, 29DL161TD, 29DL161BD, 29DL161TE, 29DL161BE, 29DL162TD, 29DL162BD, 29DL162TE, 29DL163BD, 29DL163TD, 29DL163BD, 29DL163TE, 29DL163BE, 29DL164TD, 29DL164BD, 29DL164TE, 29DL164BE, 29DL321TD, 29DL321BD, 29DL322TD, 29DL322BD, 29DL322TE, 29DL323BE, 29DL323TD, 29DL323BD, 29DL323TE, 29DL323BE, 29DL324TD, 29DL324BD, 29DL324TE, 29DL324BE, Hynix HY29DL162T, HY29DL162B, HY29DL163T, HY29DL163B NEC uPD29F032202AL-T, uPD29F032202AL-B, uPD29F032203AL-T, uPD29F032203AL-B, uPD29F032204AL-T, uPD29F032204AL-B Samsung K8D1716UBC, K8D1716UTC, K8D3216UBC, K8D3216UTC Sanyo LE28DW8163, LE28DW1621T, LE28DW3212T ST Micro / Numonix M29DW323DT, M29DW323DB, M29DW324DT, M29DW324DB, Toshiba TC58FVT321, TC58FVB321, TC58FVM5T2A, TC58FVM5B2A, TC58FVM5T3A, TC58FVM5B3A Winbond W19B322MT, W19B322MB, W19B323MT, W19B323MB, W19B324MT, W19B324MB

Selected group – 8/16bit, Vpp, boot block Request Adapter 3.3V, Flash 16bit (LV) > Intel 28Fx00 > ...- Vcc=5V, Vpp=5.0V. Jumpers Jp1, Jp3 (+5V), Jp5 (A18), JpAA (pin9-A21, pin15-A19) Intel (TE,E) 28F200CVT, 28F200CVB, 28F200B5T, 28F200B5B, 28F400CVT, 28F400CVB, 28F400CET, 28F400CEB, <u>28F400B5T</u>, 28F400B5B, 28F800CVT, 28F800CVB, 28F800CET, <u>28F800CEB</u>, 28F800B5T, <u>28F800B5B</u> **ISSI** IS28F200BVT, IS28F200BLVT, IS28F200BVB, IS28F200BLVB, IS28F400BVT, IS28F400BLVT, IS28F400BVB, IS28F400BLVB Micron MT28F200B1WG-T, MT28F200B1WG-B, MT28F200B5-T, MT28F200B5-B, MT28F400B1WG-T, MT28F400B1WG-B, MT28F400B5-T, MT28F400B5-B, MT28F800B1WG-T, MT28F800B1WG-B, MT28F800B5-T, MT28F800B5-B Sharp LH28F400BV(H)E-TL. LH28F400BV(H)E-BL, LH28F800BV(H)E-TV, LH28F800BV(H)E-BV Texas Instr. TMS28F200A-T, TMS28F200A-B, TMS28F400A-T, TMS28F400A-B, TMS28F800A-T, TMS28F800A-B, TMS28F1600T, TMS28F1600B Winbond W28V400T, W28V400B - Vcc=3.3V, Vpp=3.3V. Jumpers Jp2 (+3.6V), Jp5 (A18), JpAA (pin9-A21, pin15-A19) Intel (TE,E) 28F400B3T, 28F400B3B Micron MT28F200B3WG-T, MT28F200B3WG-B, MT28F400B3WG-T, MT28F400B3WG-B, MT28F800B3WG-T, MT28F800B3WG-B Sharp LH28F800BJ(H)E-PTTL, LH28F800BJ(H)E-PBTL, LH28F800BV(H)E-TTL, LH28F800BV(H)E-BTL, LH28F160BJ(H)E-T, LH28F160BJ(H)E-B, LH28F160BV(H)E-TTL, LH28F160BV(H)E-BTL, LH28F320BJ(H)E-PT, LH28F320BJ(H)E-PB Winbond W28J800T, W28J800B, W28J160T, W28J160B, W28J320T, W28J320B

TSOP-48_D3 specific support

Selected device group (16bit, Vpp, boot block)

Request Adapter 3.3V, Flash 16bit (LV) > Intel 28Fx00 > 28F320C3T or 28F320C3B

- Vcc=3.3V, Vpp=3.3V. Jumpers Jp2 (+3.6V), Jp5 (A18), JpA (pin15-A19), JpC (pin9-A21), JpE (pin13-Vpp=Vcc)

JpF on (A21-log0). Get ID, Read, Erase and Write first 32Mb block

JpF off (A21-log1). Read, Erase and Write second 32Mb block

Intel TE28F640C3T, TE28F640C3B Macronix MX28F640C3T, MX28F640C3B, MX28F640C3BT, MX28F640C3BB Numonix M28W640FCT, M28W640FCB, M28W640HCT, M28W640HCB Sharp LH28F640BF(H)E-PTTL, LH28F640BF(H)E-PBTL ST Micro M28W640CT, M28W640CB, M28W640ECT, M28W640ECB, M28W640FCB

Selected device group (8/16bit, 16bit, boot block)

Request Adapter 3.3V, Flash 16bit (LV) > 29Fx00 > 29F320

- Vcc=3.3V. Jumpers Jp2 (+3.6V), Jp5 (A18), JpB (pin9-A19, tsop56/pin11-A19), JpD (pin13-A21, tsop56/pin15 -A21)

- 32Mb chips, TSOP-56

AMD AM29LV320MH, AM29LV320ML **Macronix**MX29LV320MH, MX29LV320ML, MX29GL320EH, MX29GL320EL **Spansion** S29GL032A..-R1, S29GL032A..-R2, S29GL032M..-R1, S29GL032M..-R2, S29GL032N..-01, S29GL032N..-02, S29GL032N..-V1, S29GL032N..-V2 - 64Mb chips, TSOP-48, TSOP-56.

JpF on (A21-log0).

Get ID, Read and Write first 32Mb block. Erase and Get ID (extended) - apply utility erase2 JpF off (A21-log1). Read and Write second 32Mb block

AMD AM29LV640MT, AM29LV640MB, <u>AM29LV640MH</u>(TSOP-56), AM29LV640ML (TSOP-56), AM29DL640D, AM29DL640G, AM29DL640H Amic A29L640T, A29L640B EON EN29LV640T, EN29LV640B, EN29PL064, EN29GL064T, EN29GL064T (TSOP-56), EN29GL064B, EN29GL064B (TSOP-56), EN29GL064H, EN29GL064H (TSOP-56), EN29GL064L, EN29GL064L (TSOP-56) Fujitsu MBM29DL640E, MBM29DL64DF, MBM29PL64LM, MBM29PL64LM (TSOP-56) Macronix MX29LV640T, MX29LV640B, MX29LV640BT, MX29LV640BB, MX29LV640DT, MX29LV640DB, MX29LV640ET, MX29LV640EB, MX29LV640MT, MX29LV640MB, MX29LV640MH (TSOP-56), MX29LV640ML (TSOP-56), MX29GL640ET, MX29GL640EB, MX29GL640EH (TSOP-56), MX29GL640EL (TSOP-56) Macronix KH KH29LV640DT, KH29LV640DB NumonixM29W640FT, M29W640FB, M29W640GT, M29W640GT (TSOP-56), M29W640GB, M29W640GB (TSOP-56), M29W640GH, M29GW640GH (TSOP-56), M29W640GL, M29W640GL (TSOP-56), M29DW640F, M29DW641F, M29W064FT, M29W064FB Renesas M5M29KT641A, M5M29KB641A Samsung K8D6316UTM, K8D6316UBM, K8P6415UOB Spansion S29GL064A,.-R1 (TSOP-56), S29GL064A,.-R2 (TSOP-56), S29GL064A..-R3, S29GL064A..-R4, S29GL064A..-R8, S29GL064A..-R9, <u>S29GL064M..-R1</u> (TSOP-56), S29GL064M..-R2 (TSOP-56), S29GL064M..-R3, S29GL064M..-R4, S29GL064N..-01 (TSOP-56), S29GL064N..-V1 (TSOP-56), S29GL064N..-02 (TSOP-56), S29GL064N..-V2 (TSOP-56), S29GL064N..-03, S29GL064N..-04, S29JL064H SST SST38VF6401, SST38VF6402, SST38VF6403, SST38VF6404, SST39VF6401, SST39VF6401B, SST39VF6402, SST39VF6402B ST Micro M29W640DT, M29W640DB, M29W640FT, M29W640FB, M29W640GT, M29W640GT (TSOP-56), M29W640GB, M29W640GB (TSOP-56), M29W640GH, M29GW640GH (TSOP-56), M29W640GL, M29W640GL (TSOP-56), M29DW640D, M29DW640F, M29DW641F Toshiba TC58FVT641, TC58FVB641, TC58FVM6T2A, TC58FVM6B2A, TC58FVM6T5B, TC58FVM6B5B - 128Mb chips, TSOP-56

JpF on (A21-log0), JpH on (A22-log0).

Get ID, Read and Write first 32Mb block. Erase and Get ID (extended) - apply utility erase 2 JpF off (A21-log1), JpH on (A22-log0). Read and Write second 32Mb block.

JpF on (A21-log0), JpH off (A22-log1). Read and Write third 32Mb block.

JpF off (A21-log1), JpH off (A22-log1). Read and Write fourth 32Mb block.

AMD AM29LV128MH, AM29LV128ML **EON** EN29GL128H, EN29GL128L **Fujitsu** MBM29PL128LM, MBM29PL12M **Macronix**MX29LA128MT, MX29LA128MB, MX29LV128DT, MX29LV128DB, MX29LV128MT, MX29LV128MB, MX29LV128MH, MX29LV128ML, MX29GL128EH, MX29GL128EL, MX29GL128EU, MX29GL128ED **Numonix** M29W128FH,

M29W128FL, M29W128GH, M29W128GL, M29DW127G, M29DW128F, M29DW128G Samsung K8Q2815UQB Spansion S29GL128M, S29GL128N ST Micro M29W128FH, M29W128FL, M29W128GH, M29W128GL, M29DW128F Toshiba TC58FVM7T2A, TC58FVM7B2A, TC58FVM7T5B, TC58FVM7B5B

Selected device group (16bit, boot block)

Request Adapter 3.3V, Flash 16bit (LV) > 29Fx00 > 29F320

- Vcc=3.3V. Jumpers Jp2 (+3.6V), Jp5 (A18), JpA (pin15-A19), JpC (pin9-A21), JpE (pin13-ACC/Vpp=Vcc)
- 64Mb chips, TSOP-48

JpF on (A21-log0).

Get ID, Read and Write first 32Mb block. Erase and Get ID (extended) - apply utility erase2 JpF off (A21-log1). Read and Write second 32Mb block

AMD AM29LV641DH, AM29LV641DL, AM29LV641GH, AM29LV641GL, AM29LV641MH, AM29LV641ML **Atmel** AT49BV640, AT49BV640T, AT49BV6416, AT49BV6416T, AT49BV642D, AT49BV642DT **EON** EN29LV641H, EN29LV641L **Fujitsu** MBM29LV650UE, MBM29LV651UE, MBM29PL65LM **Macronix** MX29LV640U, MX29LV640BU, MX29LV641MH, MX29LV641ML, MX26L6419, MX26L6420 **Spansion** S29GL064A..-R6, S29GL064A..-R7, S29GL064M..-R6, S29GL064M..-R7, S29GL064N..-V7 **ST Micro** M29W641DH, M29W641DL

5. Utility erase2

64-128Mb memory chip erase takes longer time than assigned for selected 29F320. Willem SW can return chip erase timeout error.

Utility erase2 automatically activate AMD/Fujitsu flash memory Chip erase command with 300 sec timeout. Additionally utility return chip first word content before and after erase, extended chip ID.

