



MASTER TIMINGS --DCLK1.75 +5٧ +5٧ +5٧ ↑ U1 +5V ↑ U11 U12 74LS174N R29 4.7K 74LS169BN TBP18s030 Y1 14 Mhz C51 CLK₁₄ CLK_{1.75} 22pF QA 6 3D 11 4D 3 1D 14 6D 13 5D 01 2Q -DCLKRASCAS Q2 3Q -DCLKRAS Q3 4 Q4 6 Q5 7 Q6 9 Q7 9 4Q DCLKcas U3B 74F04 U3A U3C 1Q 6Q -DCLKEF936x 74F04 74F04 —DCLK_{CLR} —DCLK_WRITE QD 11× 5Q R2 R3 \rightarrow GND GND 470 470 GND GND GND DCLK14 Author: InsaneDruid License: CC BY 4.0 creativecommons.org/licenses/by/4.0/ reverse-engineered in 2022 Sheet: MASTER TIMINGS File: master_timings.kicad_sch Title: LOW SPEED GRAPHIK Size: A4 Date: 2022-03-13 Rev: V001 KiCad E.D.A. kicad 7.0.9 ld: 3/10

GPD & ROM +5٧ U18 - D DPET[0..4] **≈** 74LS374 D[0..7]D 00 2 DPEIO 01 5 DPETI 02 6 DPET2 03 9 DPET3 04 12 DPET4 05 15 DPET5 06 16 DPET6 07 DPET7 U6D 74LS32 BR/\overline{W} MOD REG. 12 74LS32 CLK1.75D +5V U9 EF936x GND FMAT -{MFREE MSL0 MSL1 MSL2 DPETO 33 DPET1 32 DPET2 31 DPET3 30 DPET4 29 DPET5 28 DPET6 27 DPET7 26 DPET7 26 D7 MSL1 MSL3 MSL3 -DMSL[0..3] ADISPLAY DADO DAD1 39 ADISPLAY1 DAD2 38 ADISPLAY2 DAD5 2 ADISPLAY5 +5V ADISPLAY DAD4 3 DAD3 4 ADISPLAY3 DAD6 5 ADISPLAY6 CLKEF936xD 1 CK LPCK 00 15 MOD REG. 01 14 13 HCOPY 02 03 12 04 110 × 05 10 × 06 7 E 74LS138 LPCKD--DADISPLAY[0..6] ~{ALL 22 DALL APET4 APET5 APET6 9 DPET 7 8 DPET 6 7 DPET 6 6 DPET 4 5 DPET 3 4 DPET 2 2 DPET 1 1 DPET 0 SYNC -DSYNC APETO 9 APET1 10 APET2 11 APET3 12 A3 R31 12K DLIGHTPEN_ENABLE BLK -DBLK PHI2 6 E3 E2 XFXX 4 E1 VB 16 IRQ 13 WHITE ~{WHITE DWHITE APET[0..11] GND GND 25 24 23 23 22 24 21 PHI2 20 19 18 17 16 16 15 14 12 APET10 APET9 APET8 APET6 APET6 APET6 APET6 APET6 APET6 APET6 APET7 JQ3 GND GND +50 +5V U40A 74LS20 U29 2332A APET11 3 1 74LS20 APETO APET10 APET11 CSAPET +5٧ XFXX 9 AOXX.AEXX PHI2 12 PHI2 13 R26 4.7K APET1 APET2 APET3 APET4 DO 9 DPETO D1 10 DPET1 D2 11 DPET2 D3 13 DPET3 D4 14 DPET4 D5 16 DPET6 D7 17 DPET7 APET5 APET6 APET7 U14F 74LS05 Арет8 Арет9 CSAPET 12 ENA BUF 2 J10 +5V JP3 +0K R27 APET10 U5D 74LS08 APET11 3 JP2 GND \uparrow APET[0..11] GND Author: InsaneDruid License: CC BY 4.0 creativecommons.org/licenses/by/4.0/ reverse-engineered in 2022 Sheet: GPD & ROM File: gdp_rom.kicad_sch Title: LOW SPEED GRAPHIK Size: A3 Date: 2022-03-13 KiCad E.D.A. kicad 7.0.9 Rev: V001











