Title block:
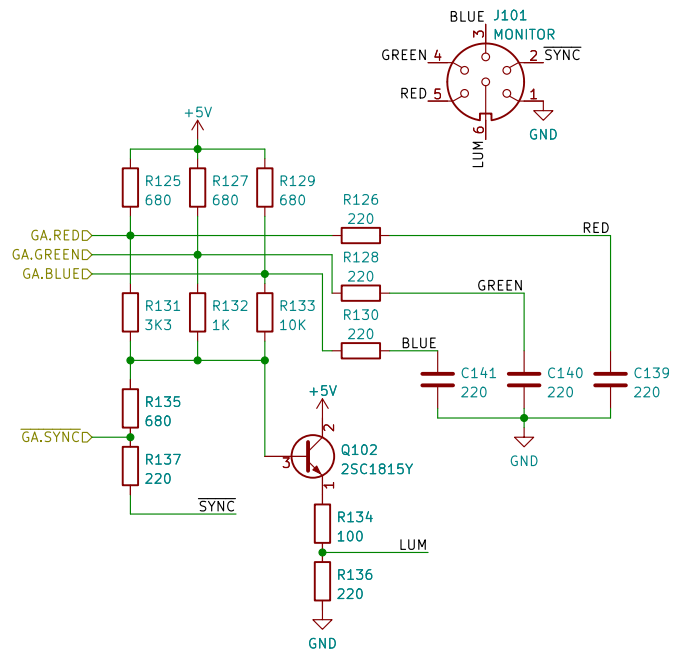
Amstrad plc
Sheet: /
File: mc0020x.kicad_sch
Title: CPC6128 MC0020x
Size: A3 | Date: 2022-08-20 | Rev: 1
KiCad E.D.A. kicad 6.0.7-f9a2dced07-116-ubuntu22.04.1 | Id: 1/5

Main components:
IC107 8255A
IC101 74LS145
IC102 AY-3-8912
IC108 MC6845
IC111 Z80CPU
IC106 74LS273
IC116 AMG40010
IC110 74LS132
IC112 74LS32
IC117 74HCU04

Referenced sheets:
File: tape.kicad_sch
File: disc-ver2.kicad_sch
File: memory.kicad_sch
File: video.kicad_sch

CRTC{MA[0..13] RA[0..4]}

IC109 74LS153
IC104 74LS153
IC113 74LS153
IC105 74LS153

IC119 TMS4164
IC120 TMS4164
IC121 TMS4164
IC122 TMS4164
IC123 TMS4164
IC124 TMS4164
IC125 TMS4164
IC126 TMS4164

IC127 TMS4164
IC128 TMS4164
IC129 TMS4164
IC130 TMS4164
IC131 TMS4164
IC132 TMS4164
IC133 TMS4164
IC134 TMS4164

IC115 74LS244
IC114 74LS373
IC112C 74LS32
IC103 AMS40025 32K ROM
IC205C 74LS08
IC118 AMS40030
PAL16L8AC

D[0..7]
GA-D[0..7]
A[0..15]

All open for 128K
All closed for 64K

Schematic — CPC6128 MC0020x tape audio and power

Components labeled in schematic include:

CP303 SPEAKER, C301 10V100u, C302 0.068 M, C303 16V47u, C304 10V47u, C305 0.01 M, C306 10V47u, C307 470p, C308 10V22u, C309 50V1u, C310 220p, C311 50V1u, C312 0.001 M, C313 270p, C314 50V1u NP, IC301 LA4140, R301 680R, R302 47K, R303 47K, R304 22K, R305 22K, R322 4R7 0.5W, R323 ?, CP304 VOLUME, IC302A LA6358S, SOUND, +5V

J306 TAPE_PORT, REMOTE1 1, 2 GND, REMOTE2, 5 MIC, 4 EAR, C318 0.047 M, C319 0.1 M, C320 0.1, R314 10K, R310 4K7, R315 1K, R316 100R 0.5W, R313 1K, R311 18K, R308 18K, R312 10K, R309 10K, R307 47K, C317 50V1u, C316 50V1u, D304 KDS1555, D303 KDS1555, Q301 KTC1815Y, IC302B LA6358S, IC302C LA6358S, VCC VCC GND, R306 56R, C315 16V100u, WR_DATA, RD_DATA, RY301 G4S-112P, D301 1N4002, Q101 2SC2120Y, R113 1K, REMOTE, +5V, GND

R319 R, R320 R, R321 R, Q302 Q_NPN_ECB, Q303 Q_PNP_ECB, +5V, +12V, PWR_FLAG, CP305 Power Switch, J301 +5V, 5V_IN, 12V_IN, CP301 +12V, GNDPWR, GND, R317 ?, CP302 LED

Title block:

Amstrad plc
Sheet: /Tape/
File: tape.kicad_sch
Title: CPC6128 MC0020x tape audio and power
Size: A3   Date: 2022-08-20   Rev: 1
KiCad E.D.A. kicad 6.0.7-f9a2dced07-116-ubuntu22.04.1   Id: 3/5

J101
MONITOR

BLUE 3
GREEN 4
RED 5
LUM 6
SYNC 2
GND 1

+5V

R125 680
R127 680
R129 680

R126 220
R128 220
R130 220

GA.RED
GA.GREEN
GA.BLUE

RED
GREEN
BLUE

R131 3K3
R132 1K
R133 10K

C141 220
C140 220
C139 220

GND

R135 680

+5V

GA.SYNC

R137 220

SYNC

Q102
2SC1815Y

R134 100

LUM

R136 220

GND