K1 5V Input Jack

D1

U1 LM1117T — In / Out / 0v

C1 100u   **C2** 100n   **C3** 22u Tant

5v   3V3   GND

U1 PicoMite VGA

Pin	Left		Right	Pin
1	GP0	VBUS		40
2	GP1	VSYS	5V	39
3	GND	GND	GND	38
4	GP2	3V3EN		37
5	GP3	3V3	3V3	36
6	GP4	VREF		35
7	GP5	GP28	ADC2	34
8	GND	AGND	GND	33
9	GP6	GP27	ADC1	32
10	GP7	GP26	ADC0	31
11	GP8	RUN	RUN	30
12	GP9	GP22		29
13	GND	GND	GND	28
14	GP10	GP21	Red	27
15	GP11	GP20	Green	26
16	GP12	GP19	Dk Green	25
17	GP13	GP18	Blue	24
18	GND	GND	GND	23
19	GP14	GP17	VGA_VSYNC	22
20	GP15	GP16	VGA_HSYNC	21

AUDIO L, AUDIO R, PS/2_CLK, PS/2_DAT, GND, MISO, SCLK, GND, SD_CS, MOSI

RESET   **C4** 100n

R1 2R2   **C11** 22uF   3V3   GND

SD CARD **K6** — SD_V+, CS, DI, SCK, DO, GND
SD_CS, MOSI, SCLK, MISO

K4 PS/2 Kbd skt — PS/2 KBD
5V   3V3   GND
R6 10k   **R7** 10k   **R4** 10k   **R5** 10k
HV1   HV2   PS/2_CLK   PS/2_DAT
Q1 / **Q2** 2N7000

VGA socket
GP16-HSYNC, GP17-VSYNC, B3 Red GP21, B2 Green GP20, B1 Dk Green GP19, B0 Blue GP18
K3 — HSYNC 13, VSYNC 14, R 1, G 2, B 3
R8 270R   **R9** 390R   **R10** 820R   **R11** 270R
5, 6, 7, 8, 10
GND

EXPANSION PORT — **K5**
RUN, 3V3, ADC0/GP26, ADC1/GP27, ADC2/GP28, GND
P26, P27, P28

Audio jack (Line or headphones)
AUDIO R   **R3** 220R
AUDIO L   **R2** 220R
C9 2n7   **L2** 4.7mH   **L1** 4.7mH   **C6** 2n7
C5 33n   **C8** 33n   **C7** 68n   **C10** 68n
GND
R, L, G   **K2**

12kHz roll-off filter by Volhout
L1, L2 4.7mH 20R Q:60 5% RS 191-1197
C5, C8 33n 5% RS 312-1504
C6, C9 2n7 5% RS 194-0507
C7, C10 68nF 5% RS 312-1532

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