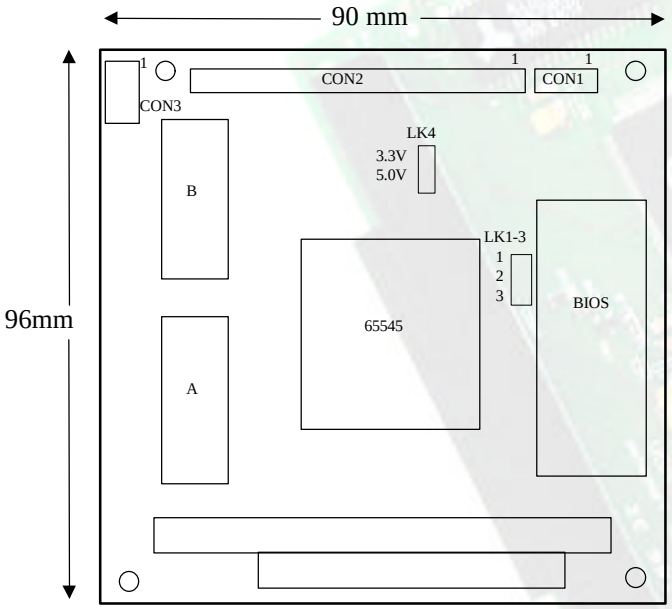
VGAV1

The VGAV1 is a 16 bit PC104 board designed to drive both CRT and LCD displays. It is based on the highly versatile Chips and Technologies 65545 IC and provides a cost effective solution for driving graphics LCD displays.

Features:

- Support for a wide range of LCD panels including: TFT , STN dual scan and STN single scan, in both colour and monochrome.
- Panel resolutions including : 320x240, 640x480, 800x600 and 1024x768.
- Simultaneous driving of both CRT and LCD displays.
- Supports all standard VGA video modes.
- Optional memory upgrade from 512KB to 1MB.
- VEE +/- voltage generator.
- 3.3V or 5V panel operation.
- Includes hardware power up and down sequencing for safe panel operation.



VGAV1 PC104 format.

Con1	Signal
1	GND
2	HSYNC
3	GND
4	VSYNC
5	GND
6	BLUE
7	GND
8	GREEN
9	GND
10	RED

2mm pitch DIL header

Con3	Signal
1	+VEE Safe
2	GND
3	GND
4	-VEE Safe
5	GND
6	+12V Safe

Molex 53261-0690

Con2	Signal	Con2	Signal
Pin1	+12v Safe	Pin2	+12v Safe
Pin3	GND	Pin4	GND
Pin5	VDD Safe	Pin6	VDD Safe
Pin7	ENAVEE	Pin8	GND
Pin9	P0	Pin10	P1
Pin11	P2	Pin12	P3
Pin13	P4	Pin14	P5
Pin15	P6	Pin16	P7
Pin17	P8	Pin18	P9
Pin19	P10	Pin20	P11
Pin21	P12	Pin22	P13
Pin23	P14	Pin24	P15
Pin25	P16	Pin26	P17
Pin27	P18	Pin28	P19
Pin29	P20	Pin30	P21
Pin31	P22	Pin32	P23
Pin33	GND	Pin34	GND
Pin35	CLOCK	Pin36	FLM
Pin37	M	Pin38	LP
Pin39	GND	Pin40	ENABL
Pin41	N/C	Pin42	N/C
Pin43	N/C	Pin44	N/C

2mm pitch DIL header.

Notes:

1) VDD Safe is +5V switched via a Fet. controlled from the ENAVDD signal on the 65545. Max VDD Safe current = 1A.
2) +12V Safe is +12V switched via a Fet. controlled from the ENAVEE signal on the 65545. Max +12V Safe current = 600 mA.
3) +/- VEE Safe is set at +/-22V and is generated from +12V safe hence having simultaneous timing. Max VEE Safe current = 100mA.
4) LK1 = A16 of BIOS EPROM. Low when linked, high when not linked. (1Meg EPROM only).
5) LK2 = A15 of BIOS EPROM. Low when linked, high when not linked.
6) LK3 = A15 of BIOS EPROM. PC104 A15 when linked. Required for 40K BIOS.
7) LK4 = Panel Voltage select 3.3V or 5V. (IC6 must be present for 3.3 V).