

# CARD B - 8-BIT VGA VIDEO GENERATOR CARD. 640 x 480 PIXELS, 60 Hz, 64 COLOUR.

VERSION 2  
GLEN KLEINSCHMIDT MARCH 2021 www.glenstuff.com

Notes for the uninitiated:

74LVC logic has a maximum recommended supply voltage (Vcc) of 3.6V.  
74LVC logic inputs are 5V tolerant and TTL-level compatible.  
On Vcc=3V3, 74LVC logic outputs deliver TTL-levels and are compatible with 74HCT inputs.  
The CY7C1049GN SRAM has TTL-level compatible inputs and outputs.

74LVC logic is substantially faster than 74HC(T) logic, thus synchronous 74LVC logic circuitry is used for the entirety of the speed-critical horizontal timing and video throughput.

