RGB, CGA to VGA Converter
(640 x 480)
ID- 000041

Operation Manual

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Introduction

This unit converts CGA into VGA with the use of cables and contrast adjuster. The CGA signal can be displayed on a PC or TFT monitor, and can also display frame sharpness and tiny pixels.

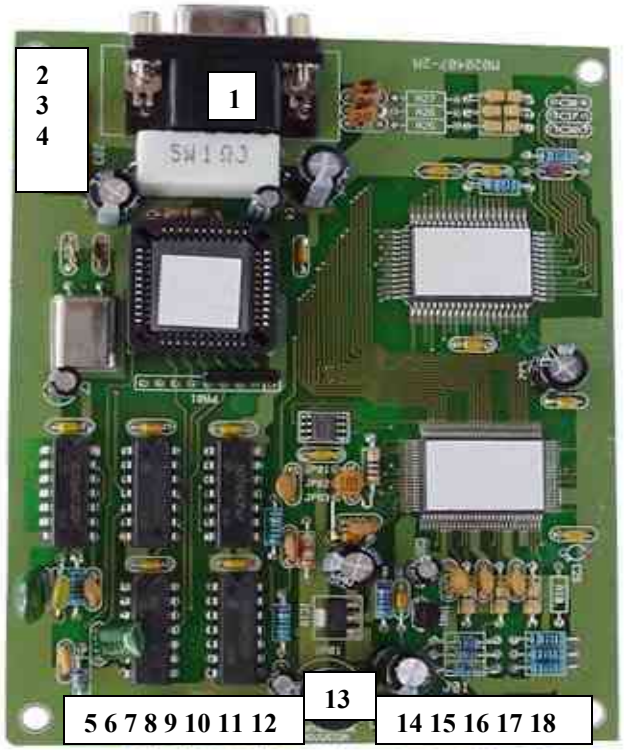
Precautions

1. Do not expose this product to direct sunlight.
2. Keep the unit away from radiator, heat sources and magnetic field.
3. Do not place it in very dusty or humid locations.
4. Use this unit in a horizontal position only.
5. Do not put heavy objects on top of the converter.
6. Put the unit in an open space that has good ventilation.
7. If the unit is acting abnormally keep the unit away from TV or other electronic equipment.
8. Unplug the unit from the power supply when it is not to be used for a long period of time.

Features

- CGA can display on a PC or TFT monitor.
- Sustains contrastive modification.
- Supports combined and separate frequency of sync. horizontal and vertical.
- Displays frame sharpness and tiny pixels.
- Able to enhance resolution from normal to a higher resolution level.

Diagram and Key



1	VGA/SVGA Connector
2	Power Input J01- Gnd
3	Power Input J01- Gnd
4	Power Input J01- +5V
5	Input J02-GND
6	Input J02-NC
7	Input J02-V
8	Input J02-H
9	Input J02-GND
10	Input J02-B
11	Input J02-G
12	Input J02-R
13	Contrast Adjuster
14	Input J01-R
15	Input J01-G
16	Input J01-B
17	Input J01-GND
18	Input J01-Sync

Connection and Installation

- DO NOT TURN THE POWER ON BEFORE DISCONNECTING THE SOURCE SIGNALS OF J01 AND J02.
- Confirm that the power is DC +5 Voltage.
- Check if the signal of source and converter are both in off stage.
- Plug the signal cable into J02 and another to the source signal.
- Turn on the signal source and power at the same time.

Specifications

Power Supply	DC 5V Consumption- 2.0W maximum
Signal	**Input 1 (J01) Sync Combination** **CGA- Video**- Analogue RGB 15Vpp/1K (Adjust by VR01) **CGA- Sync**- Negative, H/V TTL 3.5-5.0Vpp **Input 2 (J02) Sync Separation** **CGA- Video**- Analogue RGB 15Vpp/1K (Adjust by VR01) **CGA-Sync**- Negative/Positive, H/V TTL 3.5-5.0Vpp **Output (J03)** **VGA/SVGA- Video**- Analogue RGB 0.7 Vpp 75 ohm **VGA/SVGA- Sync**- Negative Separate-TTL 5.0 Vpp
Video Connector	**Input 1 (J01)-** **CGA**- 5 PIN (R, G, B, GND, Sync). **Input 2 (J02)-** **CGA**- 8 PIN (R, G, B, GND, H, V, NC, GND). **Output (J03)-** **VGA/SVGA**- 15 Pin D-Sub (Standard).
Adjustor	Contrastive Adjustor (VR01)

Factory Preset Values

Item	Input	Input	Output	Output
Timing	H. Frequency (KHz)	V. Frequency (Hz)	H. Frequency (KHz)	V. Frequency (Hz)
Input (J01)	15.75 15.6 15.5	60.0 59.1 56.2	30.9 31.2 31.2	60.0 59.1 56.2
Input (J02)	14.5~16.5	50~65	29.0~33.0	50~65