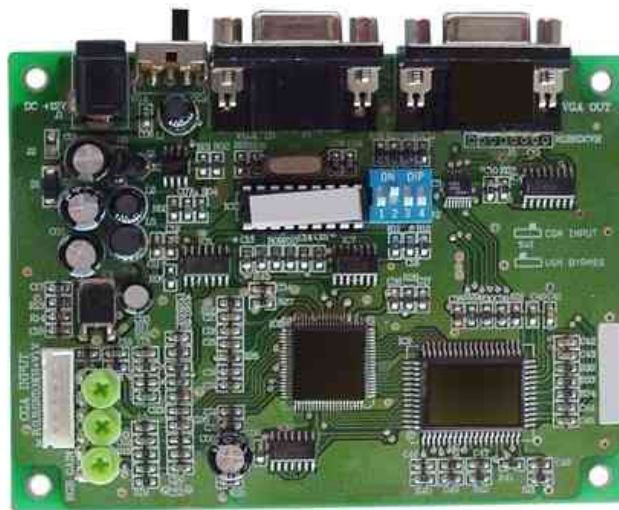


# RGB, CGA to VGA Converter (LCD suitable) ID- 000077



## Operation Manual

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## Introduction

This unit converts RGB/CGA to VGA allowing a 15k signal to be displayed on a PC or TFT monitor at 640 x 480.

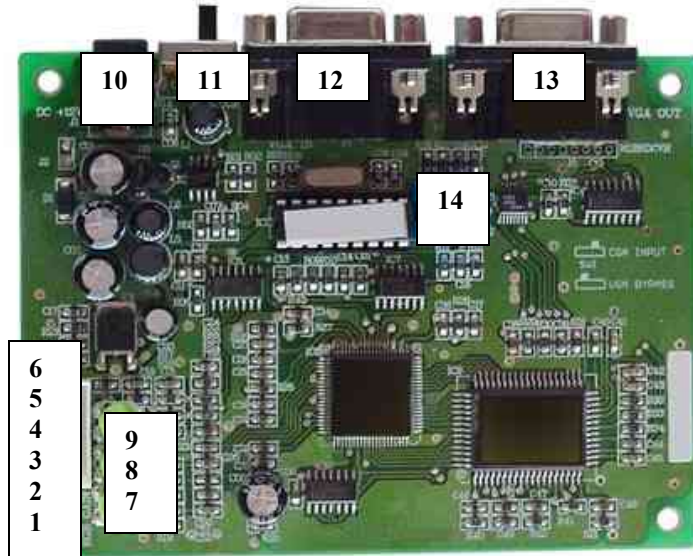
## Precautions

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 game board signal can display on a PC Monitor or TFT monitor.
- Designed for low picture noise and detects a wide range in a game.
- Low-resolution enhance to high-resolution.
- Enhances sharpness and tiny pixels.
- Supports CGA and VGA input select by bypass Switch.
- Supports multi-game board select by 16ch DIP Switch.
- RGB gain by 3 VR

## Diagram and Key



|    |                    |                  |
|----|--------------------|------------------|
| 1  | CGA Input 1-R      | CGA Input 2- R   |
| 2  | CGA Input 1-G      | CGA Input2- G    |
| 3  | CGA Input 1-B      | CGA Input 2- B   |
| 4  | CGA Input 1-GND    | CGA Input 2- GND |
| 5  | CGA Input 1-H+V    | CGA Input 2- H   |
| 6  | CGA Input 1-NC     | CGA Input 2- V   |
| 7  | RGB Gain Adjust-R  |                  |
| 8  | RGB Gain Adjust-G  |                  |
| 9  | RGB Gain Adjust-B  |                  |
| 10 | DC Jack            |                  |
| 11 | VGA Bypass Switch  |                  |
| 12 | VGA Bypass Input   |                  |
| 13 | VGA Output         |                  |
| 14 | Dipswitch- 1,2,3,4 |                  |

## Specifications

|                             |  |
|-----------------------------|--|
| <b>Power Supply</b>         | DC 8-16V<br>Consumption- 2.0W maximum  |
| <b>Signal</b>               | <p><b>Input 1 Sync Combination</b><br/>CGA- Video- Analog RGB 1-5Vpp/1KW<br/>(Adjust by VR)<br/>CGA- Sync- Negative/Positive,<br/>H/V TTL 3.5-5.0Vp-p</p> <p><b>Input 2 Sync Separation</b><br/>CGA- Video- Analog RGB 1-5Vp-p/1K<br/>(Adjust by VR)<br/>CGA-Sync- Negative/Positive,<br/>H/V TTL 3.5-5.0Vpp</p> <p><b>Input 3- SVGA Bypass</b><br/>SVGA-Video-Analog RGB 0.7Vp-p/7.5W<br/>SVGA-Sync- Negative/Positive Separate<br/>TTL 5.0Vp-p</p> <p><b>Output</b><br/>VGA/SVGA- Video- Analogue RGB<br/>0.7Vp-p/75 ohm<br/>VGA/SVGA- Sync- Negative Separate-<br/>TTL 5.0 Vp-p</p> |
| <b>Video Connector</b>      | <p><b>Input 1</b><br/>CGA- 6 PIN (R, G, B, GND, H/V, NC).</p> <p><b>Input 2</b><br/>CGA-6 PIN (R, G, B, GND, H, V).</p> <p><b>Input 3</b><br/>SVGA- 15- Pin D-Sub (Standard)</p> <p><b>Output</b><br/>VGA/SVGA- 15 Pin D-Sub (Standard).</p>   |
| <b>User Controls</b>        | VGA Bypass Switch<br>VR (RGB Gain Adjust)<br>DIP SW (Select Game Board)  |
| <b>Environmental Limits</b> | Operating Temperature- 0 ~ 55 degrees<br>Storage Temperature- -20 ~ 70 degrees   |
| <b>Weight</b>               | 170 grams  |
| <b>Dimensions</b>           | 14.5 x 116 x 92 mm   |

## Factory Preset Modes

| Mode                                   | Input                   | Input                   | Output       | Output       |
|--|-------------------------|-------------------------|--------------|--------------|
| Timing                                 | H- Freq (KHz)           | V-Freq (Hz)             | H-Freq (KHz) | V. Freq (Hz) |
| <b>Input 1 Sync<br/>Combine</b>        | 15.45                   | 60                      | 30.9         | 60           |
|  | 15.6                    | 59.1                    | 31.2         | 59.1         |
|  | 15.6                    | 55.3                    | 31.2         | 55.3         |
| <b>Input 2 Sync<br/>Separate</b>       | 14.5~16.5               | 50~65                   | 29~33        | 50~65        |
| <b>Input 3<br/>VGA/SVGA<br/>Bypass</b> | All<br>VGA/SVGA<br>Type | All<br>VGA/SVGA<br>Type | Same Input   | Same Input   |

| CH       | DIP Switch<br>4 3 2 1 | Game Board<br>Name           | CH        | DIP Switch<br>4 3 2 1 | Game Board<br>Name |
|----------|-----------------------|------------------------------|-----------|-----------------------|--------------------|
| <b>1</b> | XXXX                  | Normal ICB CM<br>99, SUBSINO | <b>9</b>  | OXXX                  | PSIKYO             |
| <b>2</b> | XXXO                  | CYE                          | <b>10</b> | OXXO                  | BIGIGO             |
| <b>3</b> | XXOX                  | IGS                          | <b>11</b> | OXOX                  |                    |
| <b>4</b> | XXOO                  | AMATIC                       | <b>12</b> | OXOO                  |                    |
| <b>5</b> | XOXX                  | JOLLY JOKER                  | <b>13</b> | OXXO                  |                    |
| <b>6</b> | XOXO                  | WITCH GAME                   | <b>14</b> | OXXO                  |                    |
| <b>7</b> | XOOX                  | CUTY LINE                    | <b>15</b> | OXXO                  |                    |
| <b>8</b> | XOOO                  | DYNA X                       | <b>16</b> | OXXX                  | SEPARATE<br>SYNC   |

**NOTE:**

**O- On**

**X-Off**