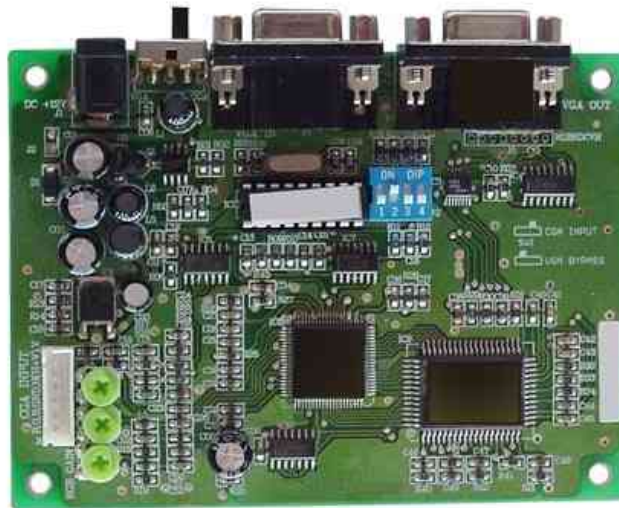


# RGB, CGA to VGA Converter (LCD suitable) ID- 000077



## 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.

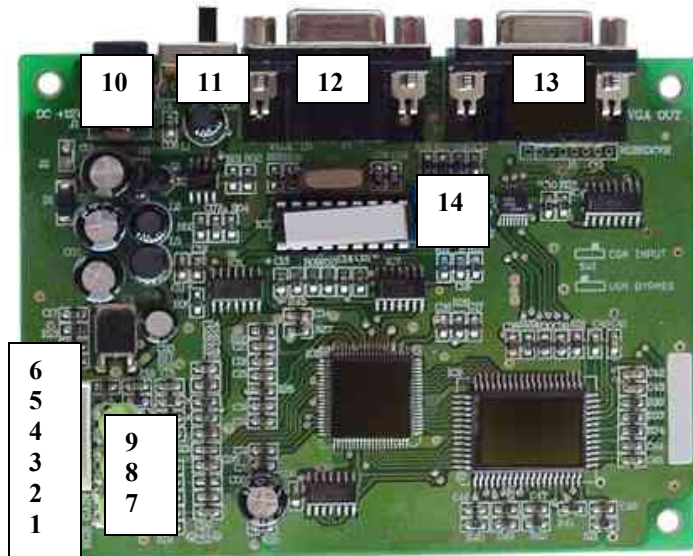
## Precautions

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 Consumption- 2.0W maximum
<b>Signal</b>	<p><b>Input 1 Sync Combination</b> CGA- Video- Analog RGB 1-5Vpp/1KW (Adjust by VR) CGA- Sync- Negative/Positive, H/V TTL 3.5-5.0Vp-p</p> <p><b>Input 2 Sync Separation</b> CGA- Video- Analog RGB 1-5Vp-p/1K (Adjust by VR) CGA-Sync- Negative/Positive, H/V TTL 3.5-5.0Vpp</p> <p><b>Input 3- SVGA Bypass</b> SVGA-Video-Analog RGB 0.7Vp-p/7.5W SVGA-Sync- Negative/Positive Separate TTL 5.0Vp-p</p> <p><b>Output</b> VGA/SVGA- Video- Analogue RGB 0.7Vp-p/75 ohm VGA/SVGA- Sync- Negative Separate- TTL 5.0 Vp-p</p>
<b>Video Connector</b>	<p><b>Input 1</b> CGA- 6 PIN (R, G, B, GND, H/V, NC).</p> <p><b>Input 2</b> CGA-6 PIN (R, G, B, GND, H, V).</p> <p><b>Input 3</b> SVGA- 15- Pin D-Sub (Standard)</p> <p><b>Output</b> VGA/SVGA- 15 Pin D-Sub (Standard).</p>
<b>User Controls</b>	VGA Bypass Switch VR (RGB Gain Adjust) DIP SW (Select Game Board)
<b>Environmental Limits</b>	Operating Temperature- 0 ~ 55 degrees 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 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 Separate</b>	14.5~16.5	50~65	29~33	50~65
<b>Input 3 VGA/SVGA Bypass</b>	All VGA/SVGA Type	All VGA/SVGA Type	Same Input	Same Input

CH	DIP Switch 4 3 2 1	Game Board Name	CH	DIP Switch 4 3 2 1	Game Board Name
<b>1</b>	XXXX	Normal ICB CM 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>	OOOX	
<b>8</b>	XOOO	DYNA X	<b>16</b>	OOOO	SEPARATE SYNC

**NOTE:**

**O- On**

**X-Off**