

28 JUN 1995

AC 9001  
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## VGA - RGB CONVERTER

The VGA - RGB Converter changes a VGA video signal into a RGB video signal, where the pulses for the vertical and the horizontal synchronisation are mixed together with the signal for the green colour.

All emulated video modes such as CGA, MDA, EGA, and SVGA are supported by the converter.

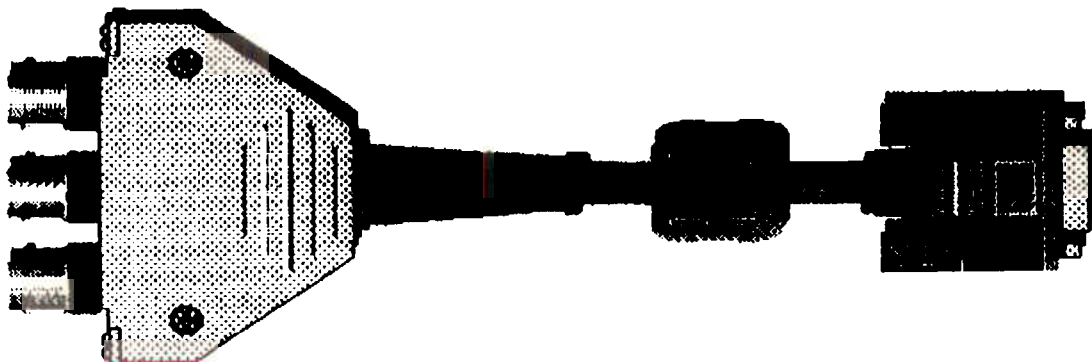
The VGA - RGB Converter doesn't need an external power supply and it supports both negative and positive synchronisation pulses.

The VGA - RGB Converter is approved and fulfills:

- IEC 801/2-4
- FCC section 15/B limit class A
- EN 55022 limit class B.

### Technical Information

Physical size	215 x 70 x 17 mm (l x w x h)		
Weight	110 grams		
Connectors	Input	physical electrical	HDD 15 male VGA, SVGA, XGA (CGA, EGA emulated modes)
	Output	physical electrical	3 x BNC RGB with sync. on green (synchronisation pulses: -280 mV at 75 Ω)



## TECHNICAL SPECIFICATIONS WEY VGA - RGB CONVERTER

- |               |                    |   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
|---------------|--------------------|---|---------------|---|----------|-------------|---|---------------|------------|---|---------------|------------|---|---------------|--------------|---|----------------|--------------|---|--------------|
| 1.            | MAX. BANDWIDTH     | 1280 x 1024 (SVGA)  |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| 2.            | APPROVALS          | FCC 15 CLASS A<br>IEC 801 (= EN55101)   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| 3.            | SIGNAL TIMING      |   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
|               | HORIZONTAL         | <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Scan Freq.</td> <td style="width: 10%;">-</td> <td style="width: 10%;">31.5 KHz</td> </tr> <tr> <td>Front porch</td> <td>-</td> <td>0.8 microsecs</td> </tr> <tr> <td>Sync Pulse</td> <td>-</td> <td>2.8 microsecs</td> </tr> <tr> <td>Back Porch</td> <td>-</td> <td>2.8 microsecs</td> </tr> <tr> <td>Blanking</td> <td>-</td> <td>6.4 microsecs</td> </tr> <tr> <td>Active Video</td> <td>-</td> <td>25 microsecs</td> </tr> </table> | Scan Freq.    | - | 31.5 KHz | Front porch | - | 0.8 microsecs | Sync Pulse | - | 2.8 microsecs | Back Porch | - | 2.8 microsecs | Blanking     | - | 6.4 microsecs  | Active Video | - | 25 microsecs |
| Scan Freq.    | -                  | 31.5 KHz  |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| Front porch   | -                  | 0.8 microsecs   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| Sync Pulse    | -                  | 2.8 microsecs   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| Back Porch    | -                  | 2.8 microsecs   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| Blanking      | -                  | 6.4 microsecs   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| Active Video  | -                  | 25 microsecs  |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
|               | VERTICAL           | <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Refresh Freq.</td> <td style="width: 10%;">-</td> <td style="width: 10%;">60 Hz</td> </tr> <tr> <td>Front porch</td> <td>-</td> <td>10 lines</td> </tr> <tr> <td>Sync Pulse</td> <td>-</td> <td>3 lines</td> </tr> <tr> <td>Blanking</td> <td>-</td> <td>37 lines</td> </tr> <tr> <td>Active Video</td> <td>-</td> <td>15.2 millisecs</td> </tr> </table>  | Refresh Freq. | - | 60 Hz    | Front porch | - | 10 lines      | Sync Pulse | - | 3 lines       | Blanking   | - | 37 lines      | Active Video | - | 15.2 millisecs |              |   |              |
| Refresh Freq. | -                  | 60 Hz   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| Front porch   | -                  | 10 lines  |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| Sync Pulse    | -                  | 3 lines   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| Blanking      | -                  | 37 lines  |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| Active Video  | -                  | 15.2 millisecs  |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| 4.            | OUTPUT CONNECTOR   | BNC   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| 5.            | EXTERNAL PSU       | NOT REQUIRED  |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| 6.            | SYNC INPUT         | POLARITY FREE   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| 7.            | INPUT CONNECTOR    | HD 15 PIN MALE (D TYPE)   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |
| 8.            | OUTPUT SIGNAL TYPE | COMPOSITE WITH SYNC ON GREEN<br>RED / BLUE - 0.72V at 75 Ohms<br>GREEN - 1.0 V at 75 Ohms   |               |   |          |             |   |               |            |   |               |            |   |               |              |   |                |              |   |              |

### PIN ASSIGNMENTS

- |    |                            |
|----|----------------------------|
| 1  | RED                        |
| 2  | GREEN                      |
| 3  | BLUE                       |
| 4  | NC                         |
| 5  | SELF TEST / DIGITAL GROUND |
| 6  | RED RETURN                 |
| 7  | GREEN RETURN               |
| 8  | BLUE RETURN                |
| 9  | NC                         |
| 10 | DIGITAL GROUND             |
| 11 | DIGITAL GROUND             |
| 12 | NC                         |
| 13 | H - SYNC                   |
| 14 | V - SYNC                   |
| 15 | NC                         |