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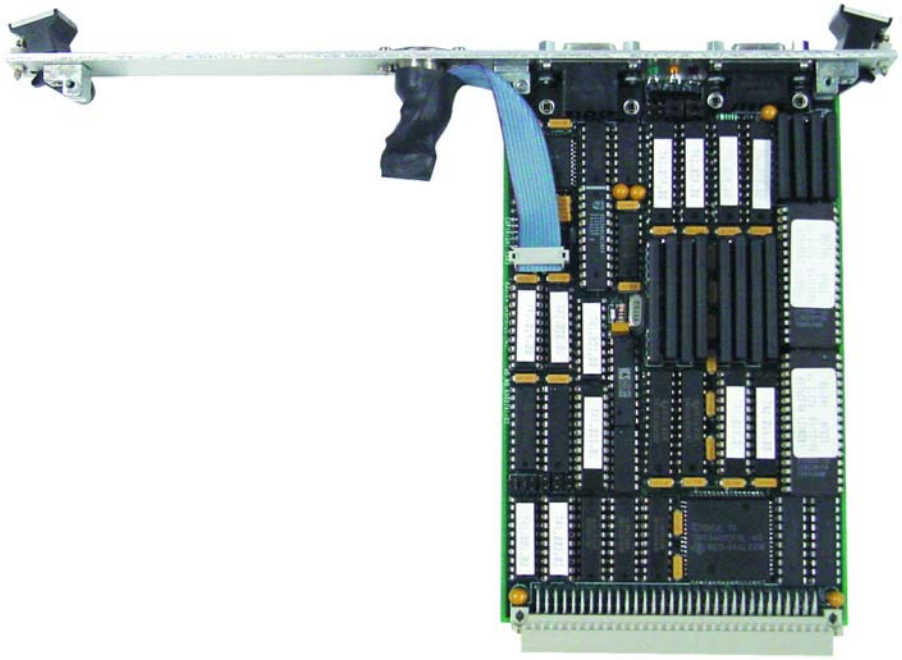
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Find the *Rastergraf RG-741* at our website: *Click HERE*

# Rastergraf

# RG-741

## 3U VME Color Graphics Board



### Features

- TMS34010 Graphics Processor
- 16 or 256 Colors
- Up to 1024 x 768 Screen Resolution
- Interlaced and Non-Interlaced Operation
- Mouse and Keyboard Interfaces
- 3U or 6U (shown above) face plate

*Rastergraf - graphics boards for VME and PMC*

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# The RG-741

The TMS34010-based RG-741 is a full function graphics board for use with VGA and SVGA color video monitors, complete with keyboard and mouse interfaces, programmable resolution, and on-board firmware. It supports flicker-free non-interlaced screen resolutions from 640 x 480 to 1024 x 768 @ 60Hz.

Software support includes the Standard Drawing Library (SDL) firmware and drivers for VxWorks based systems. VMEbus board address is selectable with factory-installed. Please see ordering information for details. Custom addressing is also available for a nominal fee.

# Hardware Features

- TMS34010 Graphics Processor
- 16/256 colors
- Standard Drawing Library (SDL) Firmware
- Up to 2 MB DRAM (512 KB standard)
- 1 MB display VRAM
- Video DAC with 256x24 color lookup table
- DB15 VGA Interface
- Sync-On-Green
- RS-232 interface for use with Mouse or Serial Port
- AT keyboard interface
- Supports interlaced and non-interlaced video
- VMEbus addressing PAL sets: : -PS0, -PS1 and -PS2
- 6U Front Panel Option

# Standard Drawing Library (SDL)

SDL, is a scaleable C graphics library. It is small, compact, ROMable, and offers device independent graphics functions for board level and embedded systems applications. Limiting the number of functions used in a given application can control its target code size. SDL is written in ANSI C and is supplied in library format. This simple to use library provides a complete set of graphics primitives that can be extended by adding utility functions for specialized graphics tasks. Included is a generic graphics driver module that provides the hardware specific routines needed to interface to the graphics hardware in a user's system.

# SDL Software Features

- Solid (thin and wide) and Dashed Lines and Rectangles
- Circles, Ellipses, and Arcs
- Filled Circles, Chords, Sectors, and Polygons
- Solid and Pattern Fills - Pixel Processing
- Proportional and Fixed Width Fonts
- Clipping Rectangle and Logical Origin
- Screen to Screen and Host to Screen Image Copy
- Mouse and Keyboard Support

# Product Specifications

| | |
|---|---|
| **Graphics Controller** | TMS34010 |
| **Memory Configuration** | 512KB or 2 MB DRAM<br>1 MB VRAM |
| **Display Colors** | 16 or 256 color |
| **Programmable Resolutions** | 640h x 480v x 4/8-bits<br>800h x 600v x 4/8-bits<br>1024h x 768v x 4/8-bits |
| **VMEbus interface** | A16, D16; A24, D16 |
| **Dimensions** | 3U VME |
| **Video Connector** | DB15-HD VESA (VGA) |
| **Analog Monitor Support** | Standard and multifrequency monitors, including Sync-On-Green |
| **Software Support** | Standard Drawing Library (SDL) |
| **Power Requirements** | +5V @ 3.0 A (Max.)<br>±12V @ 0.2 A (Max.) |
| **Environment** | |
| **Operating temperature** | 0°C to +55°C |
| **Storage temperature** | -40°C to +65°C |
| **Humidity** | 0% - 95% non-condensing |
| **Altitude** | 7,500 feet |

# Ordering Information

**Standard Configuration:**

**RG-741** - 3U VME board, 512 KB DRAM, 3U Face Plate

| Option | Description | A24 Address |
|---|---|---|
| -PS0 | Interface PAL Set | E00000h or D00000h |
| -PS1 | Interface PAL Set | C00000h or B00000h |
| -PS2 | Interface PAL Set | A00000h or 900000h |
| -CP | Custom Interface PAL Set | xxxxxxh or xxxxxxh |
| -6U | Specifies 6U front panel | |
| -50Hz | Specifies 50 Hz video timing | |
| -M2 | Specifies 2MB of DRAM | |

# www.rastergraf.com

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