



## **SYS68K/AGC-1**

### **Advanced High Resolution Graphic Controller Board**

- **63484 ACRTC Controller with Dual Access Mode**
- **1600 x 1280 x 4 Bit interlaced display format**  
**1024 x 800 x 4 Bit non-interlaced display format**
- **16/256 colours out of 16 million**
- **Smooth Scroll (vertical and horizontal)**
- **3 split screens and 1 window**
- **2Mbyte Video Memory**



## General Description

The SYS68K/AGC-1 is an advanced graphics display controller board supporting high resolution monitors with a display resolution of up to 1280 x 1024 pixel. The pixel rate to the monitor is

32 or 64MHz, depending on the display format and the selected colour information per pixel.

## Display Formats:

Format	Pixel Depth	No. of Colours	Frequency of Picture change	Display Mode
1600 x 1280	4 bit	16	50Hz	interlaced
1024 x 800	4 bit	16	50 to 60Hz	non-interlaced
800 x 600	8 bit	256	50Hz	non-interlaced
720 x 560	8 bit	256	50 to 60Hz	non-interlaced

The dual access mode of the 63484 ACRTC chip in all display modes offers maximum drawing speed.

The 2Mbyte of video memory and the colour lookup table are directly accessible through the VMEbus interface (A24:D16, D8 mode).

Horizontal and vertical smooth scroll (pixel by pixel), hardware zoom (1...16), 3 split screens, 1 window, a software programmable cursor, and a lightpen interface complete the AGC-1 board set consisting of 2 double eurocard boards.

The Graphic Kernel Standard package (GKS level 2b) supports the AGC-1 board set under the UNIX 5.2 operating system.

## SYS68K/AGC-1 Specifications

Graphics Controller	63484 (8MHz) with Dual Access Mode
Video Memory	2Mbyte directly accessible via the VMEbus interface
Display Formats	Up to 1280 x 1024 at 60Hz in interlaced mode (4 bit/pixel colour information)
Colour	Colour lookup table for simultaneous display of 16/256 colours out of a set of 16 million colours
Hardware Specials	Smooth scroll, (horizontal and vertical) Zoom (1...16) 3 split screens 1 window Hitting and Clipping Lightpen interface
Video Outputs	1.0Vss on R-G-B 4.0Vss on composite SYNC
VMEbus Interface	A24:D16, D8 Interrupter on 4 channels (level 1 to 7 software programmable)

## Ordering Information

SYS68K/AGC-1 Part No. 400020	Advanced Graphics Controller Board Set consisting of the A and B board. Documentation included
SYS68K/AGC-1/UM Part No. 800106	User's Manual for the SYS68K/AGC-1 Board Set
SYS68K/ GKSGRAL-U2B1 Part No. 160001	GKS level 2b implemented under UNIX 5.2 for the 68000

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