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EMBEDDED TECHNOLOGY SOLUTIONS

VGA-104*Plus*™

PC/104-*Plus* VGA ADAPTER · CRT AND FLAT PANEL · 4M VIDEO MEMORY



The VGA-104Plus is a PC/104-Plus VGA adapter. Based on the Chips and Technologies 65555 VGA controller, it supports 4M of video memory. The 65555 is a sophisticated PCI bus based VGA controller, capable of driving both CRT and flat-panel monitors. The VGA-104Plus provides PC/104-Plus systems with an industry standard display interface, supported by desktop and embedded operating systems alike.

The VGA-104*Plus* is one of several peripherals from Adastra Systems designed for use in PC/104 and PC/104-Plus applications. PC/104 modules are rugged and compact, key elements in any embedded system. Adastra Systems' PC/104 and PC/104-Plus products include Audio, Video, PCMCIA, SCSI, Communication, I/O, and CPU modules.

Adastra Systems OEM products and services span a broad range of embedded technology, including PC/104 and PC/104-Plus peripherals, X86 Single Board Computers, turnkey systems, and custom design and manufacturing.

FEATURES

- BASED ON POPULAR CHIPS AND TECHNOLOGIES 65555 VGA CONTROLLER
- 4M BYTE VIDEO MEMORY, 64 BITS DATA PATH
- SIMULTANEOUS CRT AND FLAT PANEL
- 5V AND 3.3V FLAT PANEL SUPPORT
- MICROSOFT AND REAL-TIME OS SUPPORT
- HARDWARE WINDOWS ACCELERATION

EMBEDDED-PC PC/104 MODULES

ADASTRA SYSTEMS

EMBEDDED TECHNOLOGY SOLUTIONS

VGA-104*Plus*™

SPECIFICATIONS

VGA

- 4M BYTE VIDEO DISPLAY MEMORY
- 64 BIT VIDEO MEMORY DATA PATH
- SUPPORTED RESOLUTIONS
  - 1280X1024X16M
  - 1024X768X16M
  - 800X600X16M
  - 640X480X16M
- 36 BIT FLAT PANEL INTERFACE
- SIMULTANEOUS CRT WITH DDC (DISPLAY DATA CHANNEL)
- SUPPORT FOR ALL FLAT PANELS: ACTIVE MATRIX AND DUAL SCAN LCD, EL, AND PLASMA
- ON-BOARD DISPLAY POWER SEQUENCING
- 5V AND 3.3V FLAT PANEL DISPLAY SUPPORT
- 16 BIT YUV ASYNCHRONOUS VIDEO INPUT (ZOOMED VIDEO)
- ALL SIGNALS BUFFERED AND SOURCE TERMINATED
- POLYSWITCH FUSE FOR BACKLIGHT SUPPLY
- FLAT PANEL SUPPLY VOLTAGE CURRENT LIMITED
- HARDWARE WINDOWS ACCELERATION

BIOS

- UP TO 16 CRT AND/OR FLAT PANELS SUPPORTED IN A SINGLE DEVICE
- DOWNLOAD BIOS FROM INTERNET
- CUSTOM BIOS DEVELOPMENT

BUS INTERFACE

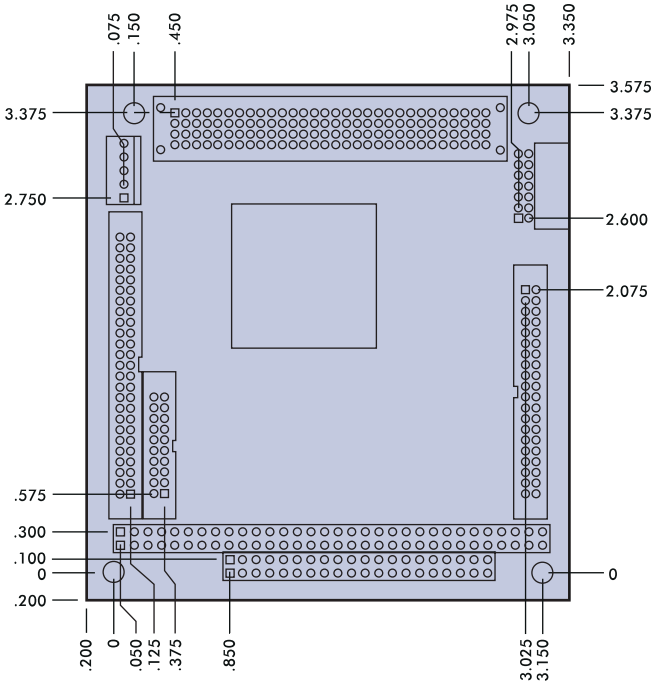
- PC/104*Plus* EMBEDDED PCI BUS (INCLUDES 16-BIT ISA BUS INTERFACE)
- 33 MHZ 32 BIT PCI INTERFACE

ENVIRONMENTAL

- 0 TO 70 C OPERATING TEMPERATURE
- -55 TO 85 C STORAGE TEMPERATURE
- 5% TO 95% RELATIVE HUMIDITY (NON-CONDENSING)

GENERAL

- SIZE: 3.55" X 3.78" X .6"
- POWER: 750MA AT 5V, MAX



CONNECTOR INFORMATION

PORT	ON-BOARD CONNECTOR	MATING CONNECTOR
FLAT PANEL 1	ASTRON AT-SRDPH2-50-2-1-GF	ASTRON AT-IDCSK2-50-11-GF
FLAT PANEL 2	ASTRON AT-SRDPH2-20-2-0-GF	ASTRON AT-IDCSK2-20-11-GF
FLAT PANEL BACKLIGHT	AMP 640457-5	AMP 640044-5 (#22 AWG)
VGA (CRT)	HIROSE DF11-14DP-2DS	HIROSE DF11-14DS-2C
ZOOMED VIDEO	ASTRON AT-SRDPH2-40-2-1-GF	ASTRON AT-IDCSK2-40-11-GF

ADASTRA SYSTEMS

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