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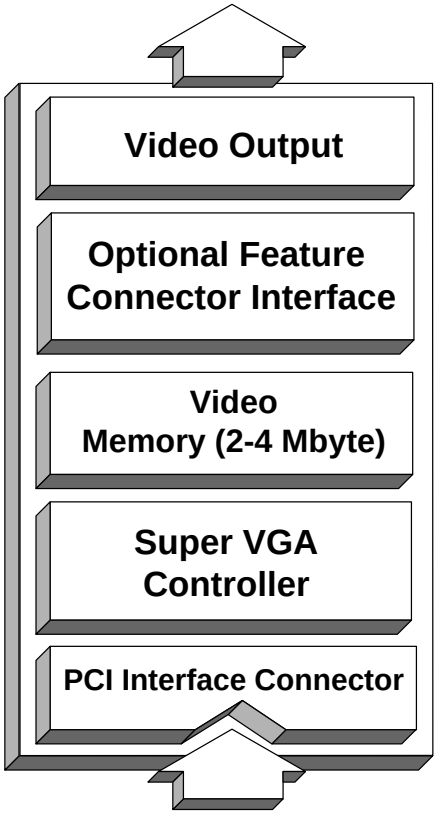
zPM11

Super VGA PCI Mezzanine Adapter

The zPM11 is a CompactPCI mezzanine adapter board that provides Super VGA display support to several Ziatech single board computers (SBCs), and other compatible SBCs. It supports both Ziatech's STD 32 SBCs (ZT 8905 and (ZT 8907), and CompactPCI SBCx (ZT 5510 and ZT 5520). Utilizing the PCI bus to optimize video performance, the zPM11 features a 32-bit data path operating at speeds up to 33 MHz, provideing a theoretical bandwidth of 132 Mbytes per second. The zPM11 is based on a 64-bit GUI VGA controller which incorporates a Bit Block Transfer (BitBLT) engine and a 24-bit true-color DAC. The zPM11 can support display resolutions up to 1280 x 1024 and color modes with up to 16.8 million colors.

Video select circuitry has also been incorporated on the zPM11 to allow multiple boards to share a common keyboard and monitor in Ziatech's STD 32 STAR SYSTEM™.

- 32-bit, 33 MHz high-performance PCI bus interface
- Conforms to CompactPCI Mezzanine Specification (Rev 1)
- VGA- and VESA-compatible BIOS
- Hardware BitBLT Accelerator for Microsoft Windows and other GUIs
- Allows shared or separate video displays in multiprocessing STD 32 STAR SYSTEMs
- Supports up to 4 Mbytes of video memory; 2 Mbytes standard
- 24-bit true-color DAC supports up to 16.8 million colors
- Optional Feature Connector
- Multimedia support—overlay, color keying, Genlock
- 1280 x 1024 x 64K colors, interlaced
- 1024 x 768 x 64K colors, non-interlaced
- 800 x 600 x 16M colors, non-interlaced



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Functional Considerations

PCI Bus Interface

The zPM11 connects to the host CPU through a 150-pin PCI mezzanine connector. The PCI bus allows the zPM11 to support the most demanding graphic applications while not taking away bandwidth from the backplane bus.

CompactPCI Form Factor

The zPM11 is form factor-compatible with the CompactPCI mezzanine specification for embedded and industrial applications. This specification is available through the PCI Industrial Computer Manufacturers Group (PICMG).

VGA Controller

The zPM11 is based upon the Cirrus Logic GD5446 VGA controller. This controller is a highly integrated, 64-bit GUI engine optimized for handling graphic intensive environments such as Windows and OS/2. The controller uses a 64-bit data path to the video memory allowing it to surpass many VRAM-based controllers in performance. In addition, the GD5446 contains several other performance enhancers such as a BitBLT accelerator, linear addressing, hardware cursor, color expansion and memory mapped I/O.

Video Memory

The zPM11 can be ordered with either 2 or 4 Mbytes of high-speed video memory. The 4 Mbyte option allows the zPM11 to support several additional high-resolution modes with more colors. These modes are as follows: 1600 x 1200 x 256 colors, 1280 x 1024 x 32K colors, 1280 x 1024 x 64K colors, and 1024 x 768 x 16M colors. With 2 Mbytes of memory, only 256 colors can be supported at 1280 x 1024 and the highest resolution 32K color mode is 1024 x 768. The highest resolution 64K color mode is 1024 x 768 and the highest resolution 16M color mode is 800 x 600.

Video BIOS

The video BIOS for the zPM11 is contained in a 32 Kbyte EEPROM. The BIOS is automatically installed during system initialization and is mapped to the standard 0C000 to 0C7FFh VGA BIOS memory space. The BIOS is 100% compatible with the IBM VGA standard.

Video Select Circuitry

The zPM11 contains video select circuitry allowing it to work in a variety of multi-video configurations. In STAR SYSTEMs, up to seven SBC/zPM11 pairs can be daisy chained together to share a common monitor and keyboard.

Feature Connector

The zPM11 can be ordered with a VESA Feature Connector for VGA pass-through applications. Contact Ziatech for details.

Software

The zPM11 comes with driver and utility disks for supporting various software packages and for configuring the display resolution and number of colors. Drivers are included for Microsoft DOS and Windows 3x, Windows 95 and Windows NT and IBM OS/2.

Specifications

Electrical

Power Req.	*Min.*	*Typ.*	*Max.*
Supply Voltage, V_{CC}	4.75V	5.00V	5.25V
Supply Current, V_{CC}=5.0V	310mA	640mA	840mA

Mechanical

- Dimensions: 5.315" x 2.008" (135mm by 51mm)
- Height: no additional slots
- Weight: 1.6 oz. (45.4g)
- Connectors
  - J1: 150-pin PCI interface, 2mm spacing
  - J3: 16-pin video output, 2mm spacing

Environmental	
Operating Temperature	0˚ to 65˚ Celsius
Storage Temperature	-40˚ to +85˚ Celsius
Non-Condensing Relative Humidity	less than 95% at 40˚ Celsius

Reliability

- MTBF: TBD
- MTTR: Five minutes (based on board replacement)

Ordering Information

zPM11-2	Super VGA PCI Mezzanine Adapter with 2 Mbytes of memory
zPM11-4	Super VGA PCI Mezzanine Adapter with 4 Mbytes of memory

All products are shipped FOB San Luis Obispo, CA, USA. OEM discounts are available for quantity purchases. Contact Ziatech for additional information.

Warranty — Five years with an optional five-year extension. Call Ziatech for full warranty information.

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