

HP E6234A  
**VXI Pentium PC Controller**



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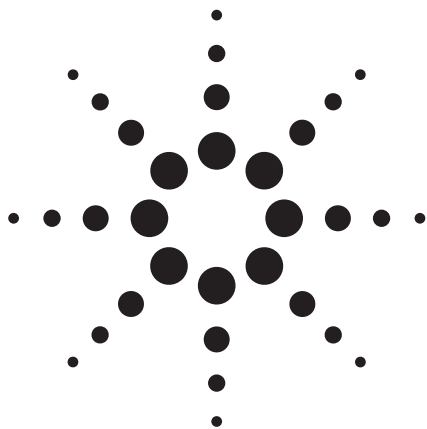
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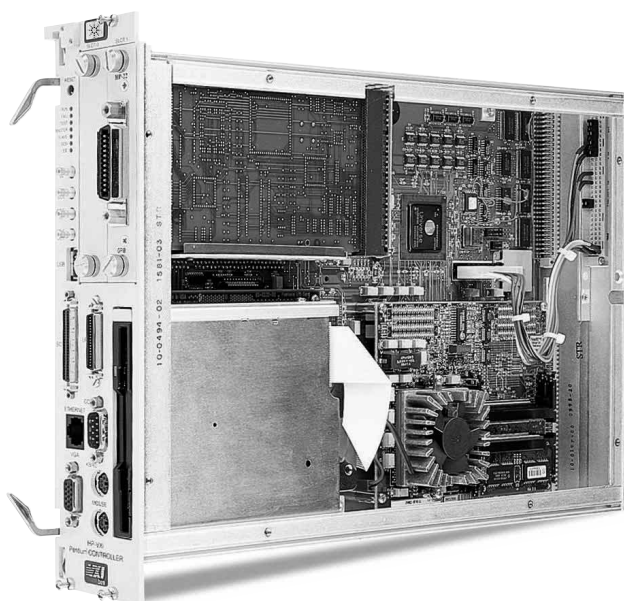
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## Agilent E6234A VXI Pentium® PC Controller 166 MHz/32 MB

### Data Sheet

- 2-Slot, C-size, message-based PC controller
- 166 MHz Intel Pentium® Processor
- SICL/VISA support
- Upgrade memory using standard SODIMMS
- VXI *plug&play*-compatible with Win 95/NT
- Additional I/O interfaces available



Agilent E6234A

### Description

The Agilent E6234A is a **C-size, 2-slot, message-based, PC controller** and can be used in either the Agilent E84XX series mainframes, the E1401B or the E1421B Mainframe. Embedding the controller in the VXI chassis allows direct computer access of other VXI devices, system memory, and triggers as though they were part of the controller hardware. Therefore, you don't need a separate command module.

The E6234A accesses the VXIbus with a full 32-bit wide data path (D32) for highest performance. For an alternative data path into and out of your VXI system, LAN connection is standard on this module. It has one additional EXM slot for inclusion of an additional interface that can be ordered separately.

This product includes a 166 MHz processor, 2.16 GB disk, 3.5" floppy drive, 32 MB RAM, SCSI-2, RS-232, GPIB, ECP parallel port, SVGA I/F with 2 MB VRAM, two PS-2 ports, and one EXM expansion slot.

**Note:** This product uses a notebook-style 2.5" hard drive intended for low-usage operation. Applications that require frequent (more than once per minute) disk read/writes continuously over long periods may cause premature failure of the hard disk. For these applications, you should consider using an external SCSI hard drive, either a standalone drive or a VXI disk module such as the E3249B.

Refer to the Agilent Technologies Website for instrument driver availability and downloading instructions, as well as for recent product updates, if applicable.



**Agilent Technologies**

## Product Specifications

|                                   |                                                                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor:</b>                 | Intel Pentium®                                                                                                                |
| <b>Clock speed:</b>               | 166 MHz                                                                                                                       |
| <b>Main memory:</b>               | 32-128 MB                                                                                                                     |
| <b>Built-in interfaces:</b>       | Two PS-2 ports<br>SVGA w/2 MB Video RAM<br>RS-232<br>LAN<br>GPIB<br>ECP Parallel<br>SCSI-2<br>USB<br>Trigger I/O<br>Clock I/O |
| <b>Additional interfaces:</b>     | GPIB<br>2-channel RS-232<br>Thick/thin LAN                                                                                    |
| <b>Expansion slots:</b>           | 1 EXM additional                                                                                                              |
| <b>Graphics support:</b>          | Color<br>640 x 480<br>800 x 600<br>1024 x 768<br>1280 x1 024                                                                  |
| <b>Internal mass storage:</b>     | 2.16 GB Hard Drive<br>3.5-in. floppy                                                                                          |
| <b>O.S. (earliest supported):</b> | Windows 95<br>Windows NT 4.0                                                                                                  |

## Environmental Specifications

|                                     |                                                                              |
|-------------------------------------|------------------------------------------------------------------------------|
| <b>EMC specifications:</b>          | Meets CISPR 11, 1990/EN 55011 (1991):<br>Group 1, Class A                    |
| <b>Shock:</b>                       |                                                                              |
| <b>Operating:</b>                   | 30 g 11 ms, half sine pulse                                                  |
| <b>Non-operating:</b>               | 50 g 11 ms, half sine pulse                                                  |
| <b>Vibration:</b>                   |                                                                              |
| <b>Operating:</b>                   | 2.5 g acceleration over 5-300 Hz sine wave<br>(P-P),<br>1 oct/min sine sweep |
| <b>Non-operating:</b>               | 5 g acceleration over 5-300 Hz sine wave<br>(P-P),<br>1 oct/min sine sweep   |
| <b>Environmental-temperature:</b>   |                                                                              |
| <b>Operating:</b>                   | 5 to 45 °C derated 2 °C per 1000 ft (300 m)<br>over 6600 ft (2000 m)         |
| <b>Non-operating:</b>               | -40 to 65 °C (HDD limits)                                                    |
| <b>Environmental-max. altitude:</b> |                                                                              |
| <b>Operating:</b>                   | 10,000 ft (3,000 m)                                                          |
| <b>Non-operating:</b>               | 40,000 ft (12,000 m)                                                         |
| <b>Environmental-rel. humidity:</b> |                                                                              |
| <b>Operating:</b>                   | 8-90% non-condensing                                                         |
| <b>Non-operating:</b>               | 5-95% non-condensing                                                         |

## VXI Characteristics

|                              |                                    |
|------------------------------|------------------------------------|
| <b>VXI device type:</b>      | Message-based controller           |
| <b>Size:</b>                 | C                                  |
| <b>Slots:</b>                | 2                                  |
| <b>Connectors:</b>           | P1/2                               |
| <b>Shared memory:</b>        | n/a                                |
| <b>VXI busses:</b>           | TTL Trigger Bus<br>ECL Trigger Bus |
| <b>C-size compatibility:</b> | n/a                                |

## Module Current

|                | I <sub>PM</sub> | I <sub>DM</sub> |
|----------------|-----------------|-----------------|
| <b>+5 V:</b>   | 11 A            | 0.02 A          |
| <b>+12 V:</b>  | 40.2 mA         | 0.01 A          |
| <b>-12 V:</b>  | 2.4 mA          | 0.01 A          |
| <b>+24 V:</b>  | —               | —               |
| <b>-24 V:</b>  | —               | —               |
| <b>-5.2 V:</b> | 335 mA          | 0.001 A         |
| <b>-2 V:</b>   | 120 mA          | 0.006 A         |

## Cooling/Slot

|                              |      |
|------------------------------|------|
| <b>Watts/slot:</b>           | 29   |
| <b>ΔP mm H<sub>2</sub>O:</b> | 0.14 |
| <b>Air Flow liter/s:</b>     | 5.6  |

## Ordering Information

| Description                              | Product No. |
|------------------------------------------|-------------|
| VXI Pentium® PC Controller - 166MHz/32MB | E6234A*     |
| Windows 95 Development Bundle            | E6234A 001  |
| Windows NT Development Bundle            | E6234A 002  |
| Mini Cable Adapter for Printers          | E6234A 003  |
| 16 Mbytes Additional RAM                 | E6245A      |
| 32 Mbytes Additional RAM                 | E6246A      |
| Additional AUI/ThinLAN/10baseT Interface | RADIS-00724 |
| Additional GPIB Interface                | RADIS-00848 |
| Additional 2-Channel RS-232 Interface    | RADIS-00849 |

**\*Note: You must specify either Opt. 001 or Opt. 002 when ordering.**

## Related Literature

*2000 Test System and VXI Catalog CD-ROM,*  
Agilent Pub. No. 5980-0308E (detailed specifications for VXI products)

*2000 Test System and VXI Catalog,*  
Agilent Pub. No. 5980-0307E (overview of VXI products )

*1998 Test System and VXI Products Data Book,*  
Agilent Pub. No. 5966-2812E

## Online

Internet access for Agilent product information, services and support  
[www.agilent.com/find/tmdir](http://www.agilent.com/find/tmdir)

VXI product information  
[www.agilent.com/find/vxi](http://www.agilent.com/find/vxi)

Defense Electronics Applications  
[www.agilent.com/find/defense\\_ATE](http://www.agilent.com/find/defense_ATE)

Agilent Technologies VXI Channel Partners  
[www.agilent.com/find/vxichanpart](http://www.agilent.com/find/vxichanpart)

Agilent Technologies' HP VEE Application Website  
[www.agilent.com/find/vee](http://www.agilent.com/find/vee)

Agilent Technologies Data Acquisition and Control Website  
[www.agilent.com/find/data\\_acq](http://www.agilent.com/find/data_acq)

Agilent Technologies Instrument Driver Downloads  
[www.agilent.com/find/inst\\_drivers](http://www.agilent.com/find/inst_drivers)

Agilent Technologies Electronics Manufacturing Test Solutions  
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