

# Agilent E1498A V743/100 VXI Embedded Computer

## Data Sheet

- 1-Slot, C-size, message-based computer
- Direct VXI access with PA-RISC technology
- Compatibility with HP Series 700 workstations/computers
- C-SCPI and Agilent VEE support
- Includes SICL and VISA with special enhancements
- VXI *plug&play*-compatible with HP-UX drivers

### Description

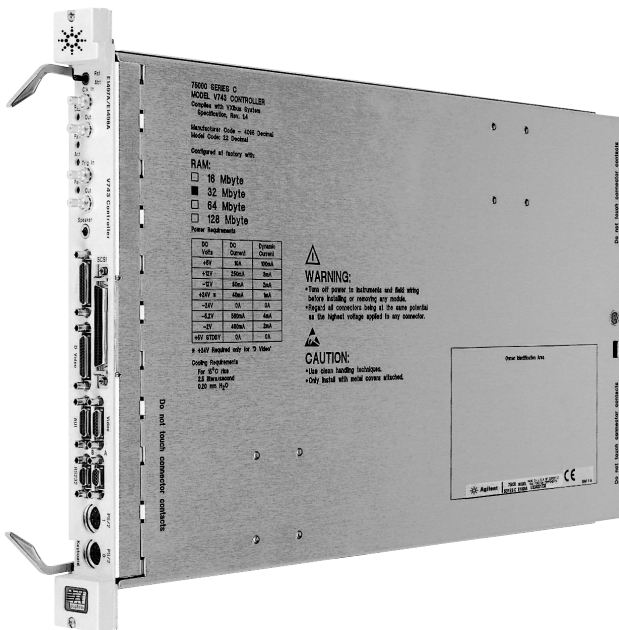
The Agilent Technologies V743/100 embedded computer (E1498A) is a **C-size, 1-slot, VXI module**. This high-performance message-based computer uses Hewlett-Packard's PA-RISC technology to deliver extraordinary performance and direct VXI access at a very competitive price.

Developed specifically as an embedded HP-UX (UNIX) computer for VXI, the V743 computer provides the high I/O performance of direct VXI backplane support, the space savings of an embedded computer, and the high power and speed of HP PA-RISC all in an HP-UX environment. The V743 supports all VXI addressing modes (A16, A24, and A32), programmable interrupt handler, single-channel DMA for VXI extended memory devices, and a 1 MB dual-ported memory buffer for high-speed data acquisition.

**Note:** You may use only one embedded computer in a system.

The V743/100, with its high-speed 100 MHz 7100LC PA-RISC processor, is ideal for development of run-time applications. This model is completely compatible with other HP 9000 Series 700 workstations and computers. However, it requires HP-UX releases 9.05 and later. With HP-UX, you can set up industry-standard networking, windowing systems, and languages. Databases and a full range of VXI-related software are available for automated test applications.

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



Agilent E1498A



## Software Support

- SICL and VISA are included when you order the Agilent V743.
- C-SCPI is supported on HP-UX with C language.
- Agilent VEE is supported, including special enhancements for direct VXIbus support.
- Supports HP-UX *VXIplug&play* framework.

## Operating System

HP-UX 10.20

**Note:** You may use only one embedded computer in a system.

## Product Specifications

<b>Processor:</b>	PA-7100LC
<b>Clock speed:</b>	100 MHz

### Performance:

MIPS:	77.7/121.6
MFLOPS:	24.3/37.8
SPECmark 89:	—
SPEC int92:	66.6/100.1
SPEC fp92:	96.5/137.0
X11 Xmark 93:	6.55/8.63
SPECrate int92:	1497.8/1237.3
SPECrate fp92:	281.4/3225.9

<b>Main memory:</b>	16-64 MB (64 MHz), 32-128 MB (100 MHz)
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<b>Built-in interfaces:</b>	GPIO, 2 RS-232, 1 SCSI-2, LAN, AUI
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<b>Additional interfaces:</b>	SE keyboard and mouse Speaker Out Trigger I/O, Clock I/O
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<b>Optional interfaces:</b>	none
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<b>Available slots:</b>	none
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<b>Supported expanders:</b>	none
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<b>Display resolution:</b>	Color 1024x768 1280x1024
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<b>Internal mass storage:</b>	Optional external: 600 MB CD-ROM 2 GB DDS tape 4-8 GB DDS w/comp
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<b>O.S. (earliest supported):</b>	HP-UX 9.05
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## General Specifications

### VXI Characteristics

<b>VXI device type:</b>	Message-based computer
<b>Size:</b>	C
<b>Slots:</b>	1
<b>Connectors:</b>	P1/2
<b>Shared memory:</b>	n/a
<b>VXI buses:</b>	TTL Trigger Bus ECL Trigger Bus

### Module Current

	I <sub>PM</sub>	I <sub>DM</sub>
+5 V:	10	0.1
+12 V:	0.25	0
-12 V:	0.08	0.6
+24 V:	0.04	0
-24 V:	0	0
-5.2 V:	0.56	0
-2 V:	0.48	0

### Cooling/Slot

<b>Watts/slot:</b>	59.00
<b>ΔP mm H<sub>2</sub>O:</b>	0.30
<b>Air Flow liter/s:</b>	4.70

## Ordering Information

Description	Product No.
V743/100 VXI Embedded Computer	E1498A
Delete SICL media and manuals	E1498A 002
64 MB total RAM	E1498A ANE
128 MB total RAM	E1498A ANS
3 yr. retn. to Agilent to 1 yr. OnSite warr.	E1498A W01

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***[www.agilent.com/find/assist](http://www.agilent.com/find/assist)***

### **Phone or Fax**

United States:  
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Canada:  
(tel) 1 877 894 4414  
(fax) (905) 282 6495

China:  
(tel) 800 810 0189  
(fax) 1 0800 650 0121

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(tel) (31 20) 547 2323  
(fax) (31 20) 547 2390

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(tel) (81) 426 56 7832  
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