



Agilent E1498A

# 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
- VXIplug&play-compatible with HP-UX drivers

# Description

The Agilent Technologies V743/100 embedded computer (E1498A) is a **C-size, 1-slot, VXI module.** This highperformance 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.



#### **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 VXI*plug&play* framework.

### **Operating System**

HP-UX 10.20

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

#### **Product Specifications**

Processor:	PA-7100LC	
Clock speed:	100 MHz	
Performance:		

MIPS: MFLOPS: SPECmark 89: SPEC int92: SPEC fp92: X11 Xmark 93: SPECrate int92: SPECrate fp92:	77.7/121.6 24.3/37.8 
Main memory:	16-64 MB (64 MHz), 32-128 MB (100 MHz)
Built-in interfaces:	GPIB, 2 RS-232, 1 SCSI-2, LAN, AUI
Additional interfaces:	SE keyboard and mouse Speaker Out Trigger I/O, Clock I/O
Optional interfaces:	none
Available slots:	none
Supported expanders:	none
Display resolution:	Color 1024x768 1280x1024
Internal mass storage:	Optional external: 600 MB CD-ROM 2 GB DDS tape 4-8 GB DDS w/comp
0.S. (earliest supported):	HP-UX 9.05

### **General Specifications**

VXI Characteristics					
VXI device type:	Message-based computer C 1 P1/2 n/a TTL Trigger Bus ECL Trigger Bus				
Size:					
Slots: Connectors: Shared memory:					
				VXI buses:	
				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: 2 V:	0.56 0.48	0 0			
Cooling/Slot					
Watts/slot:	59.00				
$\Delta P mm H_2O$ :	0.30				
Air Flow liter/s:	4.70				

### **Ordering Information**

Product No.	
E1498A	
E1498A 002	
E1498A ANE	
E1498A ANS	
E1498A W01	

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Product specifications and descriptions in this document subject to change without notice.

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