

HP E1498A
V743/100 VXi Embedded Controller



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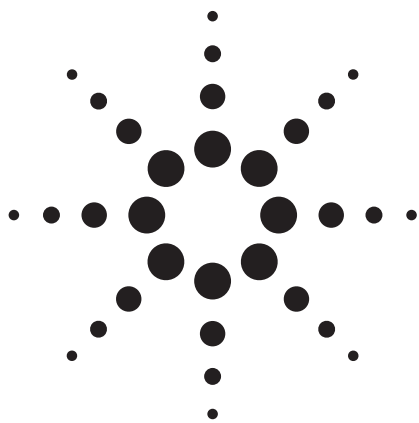
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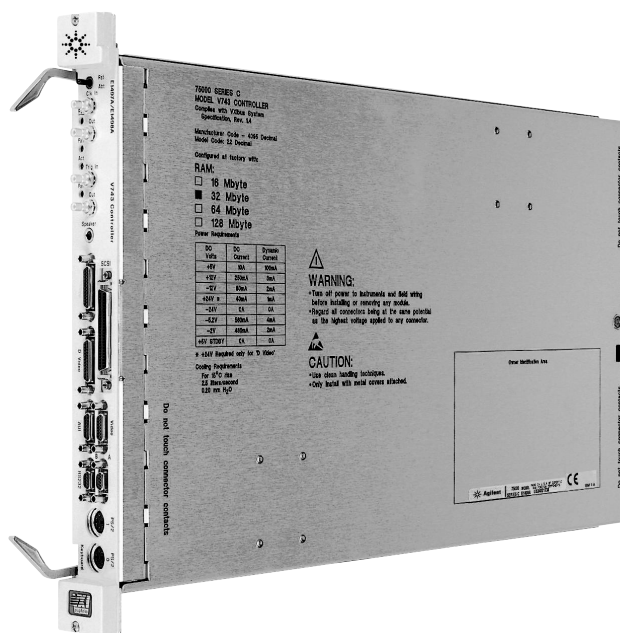
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Agilent E1498A V743/100 VXI Embedded Computer

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



Agilent E1498A

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 Technologies

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

Processor:	PA-7100LC
Clock speed:	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
Main memory:	16-64 MB (64 MHz), 32-128 MB (100 MHz)
Built-in interfaces:	GPIO, 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
O.S. (earliest supported):	HP-UX 9.05

General Specifications

VXI Characteristics		
VXI device type:	Message-based computer	
Size:	C	
Slots:	1	
Connectors:	P1/2	
Shared memory:	n/a	
VXI buses:	TTL Trigger Bus ECL Trigger Bus	
Module Current		
	I _{PM}	I _{DM}
+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		
Watts/slot:	59.00	
ΔP mm H ₂ O:	0.30	
Air Flow liter/s:	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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