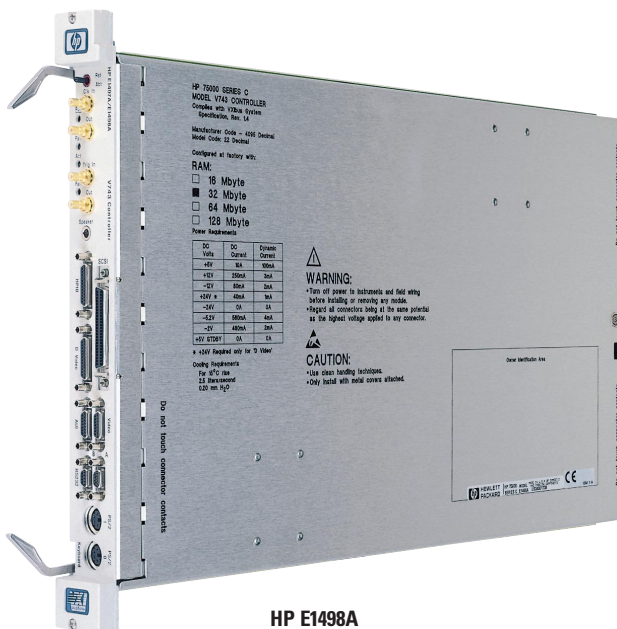


V743/100 VXI Embedded Controller HP E1498A Technical Specifications

- Direct VXI access with PA-RISC technology
- Compatibility with HP Series 700 workstations/controllers
- C-SCPI and HP VEE support
- Includes SICL and VISA with special enhancements
- VXIplug&play-compatible with HP-UX drivers



Description

The V743/100 embedded controller is a **C-size, 1-slot, VXI module**. This high-performance message-based controller uses HP'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) controller for VXI, the V743 controller provides the high I/O performance of direct VXI backplane support, the space savings of an embedded controller, 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 controller 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 controllers. 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 HP 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 HP V743.
- C-SCPI is supported on HP-UX with C language.
- HP VEE is supported, including special enhancements for direct VXIbus support.
- Supports HP-UX VXI*plug&play* framework.

Operating System

HP-UX 9.05 and later

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

Product Specifications

Processor: PA 7100LC
Clock speed: 64 or 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: HP-IB, 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

VXI Characteristics

VXI device type: Message-based controller
Size: C
Slots: 1
Connectors: P1/2
Shared memory: n/a
VXI busses: TTL Trigger Bus
ECL Trigger Bus
C-size compatibility: n/a

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 H₂O: 0.30
Air Flow liter/s: 4.70

Ordering Information

Description	Product No.
V743/100 VXI Embedded Controller Module	HP E1498A
Delete Converter Cable Set	HP E1498A 001
Delete SICL Media and Manuals	HP E1498A 002
64 MB total RAM	HP E1498A ANE
128 MB total RAM	HP E1498A ANS
3 yr. retn. to HP to 1 yr. OnSite warr.	HP E1498A W01

Related Literature

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

1998 Test System and VXI Products Catalog,
HP Pub. No. 5966-2815

Warranty

Standard Hewlett-Packard VXIbus hardware products are warranted against defects in materials and workmanship for a period of three years unless otherwise noted. HP software and firmware products that are designated by HP for use with a hardware product, when properly installed on that hardware product, are warranted not to fail to execute their programming instructions due to defects in materials and workmanship.

For a complete and detailed warranty statement please see the *HP Test System and VXI Products Data Book* or visit the HP Website at <http://www.hp.com/go/vxi>.

HP Website Directory

Main HP Website
<http://www.hp.com>

HP Test and Measurement
<http://www.hp.com/go/tmdir>

HP VXI Product Information
<http://www.hp.com/go/vxi>

HP VXI Channel Partners
<http://www.hp.com/go/vxichanpart>

HP VEE Application Website
<http://www.hp.com/go/hpvee>

Data Acquisition and Control Website
http://www.hp.com/go/data_acq

HP Instrument Driver Downloads
http://www.hp.com/go/inst_drivers

For more information about Hewlett-Packard test & measurement products, applications, services, and for a current sales office listing, visit our website, <http://www.hp.com/go/tmdir>. You can also contact one of the following centers and ask for a test and measurement sales representative.

United States:

Hewlett-Packard Company
Test and Measurement Call Center
P.O. Box 4026
Englewood, CO 80155-4026
1 800 452 4844

Canada:

Hewlett-Packard Canada Ltd.
5150 Spectrum Way
Mississauga, Ontario L4W 5G1
(905) 206 4725

Europe:

Hewlett-Packard
European Marketing Centre
P.O. Box 999
1180 AZ Amstelveen
The Netherlands
(31 20) 547 9900

Japan:

Hewlett-Packard Japan Ltd.
Measurement Assistance Center
9-1, Takakura-Cho, Hachioji-Shi,
Tokyo 192, Japan
Tel: (81) 426 56 7832
Fax: (81) 426 56 7840

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Hewlett-Packard
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Hewlett-Packard Australia Ltd.
31-41 Joseph Street
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1 800 629 485

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