

V743/100 VXI Embedded Controller HP E1498A

Technical Specifications

- Direct VXI Access and PA-RISC technology
- Compatibility with 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 HP V743/64 and V743/100 embedded controllers are **C-size**, **1-slot**, **VXI modules**. These high-performance message-based controllers use 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. The V743/64, with its 64 MHz, 7100LC PA-RISC processor, provides the performance you need for run-time applications at a lower cost than the V743/100.

Both models are completely compatible with other HP 9000 Series 700 workstations and controllers. However, both require 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.

Software Support

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

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 96.5/137.0 SPEC fp92: 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-II, 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

HP-UX 9.05 supported):

VXI Characteristics

VXI device type: Message-based Controller

Size: С Slots: P1/2 **Connectors: Shared memory:** n/a

VXI busses: TTL Trigger Bus

ECL Trigger Bus

C-size compatibility:

Instrument Drivers

See the HP Website (http://www.hp.com/go/inst__ drivers) for driver availability and downloading. Command module

firmware: n/a **Command module** firmware rev: n/a I-SCPI Win 3.1: n/a I-SCPI Series 700: n/a C-SCPI LynxOS: n/a C-SCPI Series 700: n/a **HP VEE Drivers:** n/a VXI*plug&play* Win Framework: n/a VXI plug&play Win95/NT Framework: n/a

VXIplug&play HP-UX

Framework:

Yes (HP E1497A) No (HP E1498A)

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 $\Delta P \text{ mm H}_20$: 0.30 Air Flow liter/s:

Ordering Information

Description	Product No.
V743/100 VXI embedded controller	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

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