NEW

V743: High-Performance VXI Embedded Controllers   HP E1497A, HP E1498A

- **Direct VXI Access and PA-RISC technology deliver top performance**
- **Complete compatibility with Series 700 workstations and controllers**
- **C-SCPI and HP VEE support**
- **Includes SICL and VISA with special enhancements for faster results**

Module Size-Slots	C-1
Message-based Commander	Yes
HP Foundations Supported	18-20
VXI*plug&play* Frameworks Supported[1]	HP-UX

(1) Availability: HP-UX 6/96.

Great Performance and Direct VXI Access in a Small Package

The HP V743/64 and V743/100 are embedded, high-performance VXI controllers. Both use HP's leading PA-RISC technology to deliver extraordinary performance and direct VXI access at very competitive prices.

The V743 controllers were developed specifically as embedded HP-UX (UNIX) controllers for VXI. They provide 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 V743/100, with its high speed, 100 MHz, 7100LC PA-RISC processor, is ideal for development as well as demanding 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.

The V743 supports all VXI addressing modes (A16, A24, and A32). It also supports programmable interrupt handler, single channel DMA for VXI extended memory devices, and a 1 MB dual-ported memory buffer for high-speed data acquisition.

Both models are completely compatible with other HP 9000 Series 700 workstations and controllers; both require HP-UX releases 9.05 and later. With HP-UX, you can set up industry-standard networking, windowing systems, and languages. Databases are available for automated test application. In addition, you can network clusters of V743s through a LAN, sharing a centralized HP-UX disk ("diskless cluster environment").

A full range of VXI-related software is available for the V743.

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.

Operating System

HP-UX 9.05 and later

Power Requirements

See Module Power and Cooling Information Table in Appendix A-1.

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

Features	Benefits
Embedded	Direct access to VXI backplane; get the performance of true VXI connectivity without the added cost of MXIbus add-ons; space savings, too
Binary Compatibility with Series 700	Access to over 3600 UNIX applications and easy application portability
HP PA-RISC Processor	Superior workstation performance
Extensive VXI-Related S/W Support	Decreased development time

CONTROLLERS AND STORAGE

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Controllers

V743: High-Performance VXI Embedded Controllers   HP E1497A, HP E1498A *(Continued)*

Ordering Information

V743/100 High-Performance VXI Embedded Controller

C-size VXI Single Slot Module, 100 MHz PA-RISC Processor, 1024x768 Graphics output—configurable to 1280x1024, 32 MB RAM, Single-ended SCSI-II, LAN, Mini-DIN connectors for keyboard and mouse, HP-IB, Dual RS-232, Trigger In/Out, Clock In/Out, Composite mono speaker output, Application and Development SICL/VISA with both DDS and CD-ROM media, HP-UX 10.x O.S. License-to-Use (order software separately), Includes subminiature to standard connector converter cables:

  70 cm video cable with 15-pin VGA connector

  70 cm LAN cable with AUI connector

  2 m HP-IB cable with 24-pin standard HP-IB connector

  2, 70 cm RS-232 cables with standard 9-pin connector........................HP E1498A

Options

  • Configure with 64 MB total RAM (V743/64 only)..............................Opt ANE

  • Configure with 128 MB total RAM...Opt ANS

V743/64 High Performance VXI Embedded Controller

C-size VXI Single Slot Module, 64 MHz PA-RISC Processor, 1024x768 Graphics output—configurable to 1280x1024, 16 MB RAM, Single-ended SCSI-II, LAN, MiniDIN connectors for keyboard and mouse, HP-IB, Dual RS-232, Trigger In/Out, Clock In/Out, Composite mono speaker output, Applications and Development SICL/VISA with both DDS and CD-ROM media, HP-UX 10.x O.S. License-to-Use (order software separately) Includes subminiature to standard connector converter cables:

  70 cm video cable with 15-pin VGA connector

  70 cm LAN cable with AUI connector

  2 m HP-IB cable with 24-pin standard HP-IB connector

  2, 70 cm RS-232 cables with standard 9-pin connector........................HP E1497A

Options

  • Configure with 32 MB total RAM...Opt ANC

  • Configure with 64 MB total RAM...Opt ANE

Options Common to Both Controllers

Localization Kit (includes keyboard and mouse) A4030B

Must Order localization option

  • North American local option ....Opt ABA

  • Other language options..Opt AB( )

Delete converter cable set (video, LAN, HP-IB, and RS-232 cables)..Opt 001

Convert Warranty from 3-year Return to HP to 1-year on-site ....Opt W01

Related Products

Color Monitors

To operate the V743 with a graphics console, you must add a keyboard, mouse, and monitor. The keyboard and mouse come with the Localization Kit (product number A4030A); monitors are listed below.

  15-inch 1024x768 resolution (70 Hz not qualified for Europe) ....HP D2806A

  17-inch 1024x768 or 1280x1024 resolution.......................................HP A4330A

  20-inch 1280x1024 resolution ....HP A4033A

Custom Cables

  2 meter HP-IB cable ....HP 11130A

  RS-232 cable, 9-pin high density to std. 9-pin....................................HP A4301A

  LAN cable, 15-pin high density to 15 pin AUI ....HP A4303A

  Video cable, 15-pin high density to std. 15 pin F ....HP A4304A

LAN

  Thin LAN transceiver...HP A2670A

  TEE connector ....HP 92227N

  Cable (length)...HP 92227 (A-H)

  Terminator pair ....HP 92227P

Mass Storage

Note: *For the following products, order both the product number and the accompanying option number, whenever an option is listed.*

2 GB with DAT tape, 2-slot, VXI Disk Module...HP E3249A

1 GB 1-slot VXI disk module..HP E4208B

1 GB hard disk (rack mount) ....HP C3660R, Opt 001

High-speed VXI data capture disk..HP E1562A/B

660 MB CD-ROM drive...HP A2655A

2 GB DDS tape drive ....HP C1520B

4–8 GB DDS tape drive w/ data compression...C1521B

Third Party Mass Storage:

V/disk by SEJUS Corporation*

  V/disk 2-slot VXI Peripheral Module ....99318A, Opt C22F

*Note: *The V/disk is a Referenced Product available from SEJUS Corporation you may find useful with your V743. To order, contact SEJUS Corporation, telephone 503-638-9000 (U.S.A.), Fax 503-638-9009 (U.S.A.). HP disclaims any and all liabilities for and makes no warranties, expressed or implied, with respect to these products, including without limitation for the implied warranties of merchantability and fitness for a particular purpose. Providing information concerning these products does not constitute HP's endorsement of the products, SEJUS Corporation, or SEJUS Corporation's support services.*