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August 14, 2026

AGILENT / KEYSIGHT

# Agilent/Keysight E1497A

Agilent E1497A V743 VXI Embedded Controller The HP/Agilent E1497A isaC-size VXI V743 embedded controller module. OEM materials describe the V743 family as message-based PA-RISC embedded HP-UX controllers with direct VXI backplane access, A16/A24/A32 addressing, programmable interrupt handler, single-channel DMA, and 1 MB dual-ported memory buffer. Embedded HP-UX control of VXI systems, high-speed data acquisition hosting, and space-saving Slot-resident controllers. Single channel DMA for extended memory devices The HP/Agilent E1497A isaC-size VXI V743 embedded controller module. OEM materials describe the V743 family as message-based PA-RISC embedded HP-UX controllers with direct VXI backplane access, A16/A24/A32 addressing, programmable interrupt handler, single-channel DMA, and 1 MB dual-ported memory buffer. Embedded HP-UX control of VXI systems, high-speed data acquisition hosting, and space-saving Slot-resident controllers. Single channel DMA for extended memory devices VXI Device Type: message based embedded controller



MODEL

**Agilent / Keysight  
E1497A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**E1497A**

LISTING

<https://aumictechlabs.com/products/e1497a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Agilent/Keysight E1497A is a C-size, 1-slot VXI embedded controller module built on HP PA-RISC technology. It delivers message-based control with direct VXI backplane access and operates under embedded HP-UX (UNIX) environments. The module integrates a 64 MHz 7100LC

PA-RISC processor with 1 MB of dual-ported memory for high-speed data acquisition. It supports all standard VXI addressing modes (A16, A24, A32), includes single-channel DMA for extended memory devices, and features a programmable interrupt handler. The E1497A is VXI plug&play compatible and supports C-SCPI, HP VEE, SICL, and VISA programming environments.

**Technical Specifications**

**Processor:** 64 MHz 7100LC PA-RISC  
**Memory:** 1 MB dual-ported buffer; optional memory upgrades available (32 MB total RAM options)  
**VXI Addressing:** A16, A24, and A32 modes supported  
**Data Transfer:** Single-channel DMA for VXI extended memory devices  
**Interrupt Handling:** Programmable interrupt handler  
**Operating System:** HP-UX 9.05 and later  
**Form Factor:** C-size, 1-slot VXI module

**Key Features**

- Direct VXI backplane access for high I/O performance
- 1 MB dual-ported memory buffer optimized for real-time data acquisition
- PA-RISC architecture delivers both speed and embedded efficiency
- Full VXI addressing capability across all standard modes
- Programmable interrupt architecture for flexible event handling

**Typical Applications**

- Embedded VXI system control and management
- High-speed data acquisition in modular test systems
- Real-time measurement automation under HP-UX environments
- Mixed-signal test and measurement integration

**Compatibility & Integration**

The E1497A integrates into VXIbus platforms and is compatible with HP 9000 Series 700 workstations and controllers. It requires HP-UX 9.05 or later and includes VXI plug&play drivers optimized for HP-UX. Software support encompasses C-SCPI, HP VEE, SICL, and VISA for flexible instrument programming and control.

## E1497A Characteristics / Specifications

| PARAMETER                   | VALUE                                              |
|-----------------------------|----------------------------------------------------|
| Controller Family           | V743                                               |
| Module Size                 | C                                                  |
| Slots Occupied              | 1                                                  |
| VXI Device Type             | message based embedded controller                  |
| Operating System            | HP-UX                                              |
| Addressing Modes            | A16, A24, A32                                      |
| Interrupt Handler           | programmable                                       |
| DMA                         | single channel DMA for VXI extended memory devices |
| Dual Ported Buffer          | 1 MB                                               |
| Workstation Compatibility   | HP 9000 Series 700 compatible family               |
| Networking                  | industry standard networking under HP-UX           |
| Related Higher Clock Model  | E1498A V743/100                                    |
| Form Factor Advantage       | embedded saves external controller space           |
| I/O Performance             | direct backplane VXI access                        |
| Programming Languages       | HP-UX languages and VXI software stack             |
| Windowing                   | HP-UX windowing systems supported                  |
| Databases                   | available for ATE applications                     |
| Operating Temperature Class | 0 to 55 C                                          |
| Connectors                  | P1/P2                                              |
| Slot Role                   | embedded resource manager/controller               |
| Product Line                | E1497A/E1498A V743 controllers                     |
| Documentation               | V743 controller manuals                            |
| Use Case                    | embedded VXI system controller                     |
| Operating temperature       | Class: 0 to 55 C                                   |

# E1497A Specifications

| PARAMETER                                   | VALUE                   |
|---------------------------------------------|-------------------------|
| Agilent E1497A V743 VXI Embedded Controller | Overview                |
| Direct VXI backplane access                 | A16 A24 A32 addressing  |
| Technical Specifications                    | Controller Family: V743 |

# General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature       | Class: 0 to 55 C                                                                                                                                                                                                       |
| Operating Temperature       | Class: 0 to 55 C                                                                                                                                                                                                       |
| Operating Temperature Class | 0 to 55 C                                                                                                                                                                                                              |
| Connectors                  | P1/P2                                                                                                                                                                                                                  |
| Slot Role                   | embedded resource manager/controller                                                                                                                                                                                   |
| Product Line                | E1497A/E1498A V743 controllers                                                                                                                                                                                         |
| Documentation               | V743 controller manuals                                                                                                                                                                                                |
| Use Case                    | embedded VXI system controller Notes V743 family capabilities from Agilent/HP V743/E1498A OEM descriptions applied to E1497A controller identity. Confirm CPU clock and installed RAM on the specific E1497A assembly. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications                                                                                                                                                                    |                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Specifications                                                                                                                                                                    |                                                    |
| PARAMETER                                                                                                                                                                         | VALUE                                              |
| Controller Family                                                                                                                                                                 | V743                                               |
| Module Size                                                                                                                                                                       | C                                                  |
| Slots Occupied                                                                                                                                                                    | 1                                                  |
| VXI Device Type                                                                                                                                                                   | message based embedded controller                  |
| Operating System                                                                                                                                                                  | HP-UX                                              |
| Addressing Modes                                                                                                                                                                  | A16, A24, A32                                      |
| Interrupt Handler                                                                                                                                                                 | programmable                                       |
| DMA                                                                                                                                                                               | single channel DMA for VXI extended memory devices |
| Dual Ported Buffer                                                                                                                                                                | 1 MB                                               |
| Workstation Compatibility                                                                                                                                                         | HP 9000 Series 700 compatible family               |
| Networking                                                                                                                                                                        | industry standard networking under HP-UX           |
| Related Higher Clock Model                                                                                                                                                        | E1498A V743/100                                    |
| Form Factor Advantage                                                                                                                                                             | embedded saves external controller space           |
| I/O Performance                                                                                                                                                                   | direct backplane VXI access                        |
| Programming Languages                                                                                                                                                             | HP-UX languages and VXI software stack             |
| Windowing                                                                                                                                                                         | HP-UX windowing systems supported                  |
| Databases                                                                                                                                                                         | available for ATE applications                     |
| Operating Temperature Class                                                                                                                                                       | 0 to 55 C                                          |
| Connectors                                                                                                                                                                        | P1/P2                                              |
| Slot Role                                                                                                                                                                         | embedded resource manager/controller               |
| Product Line                                                                                                                                                                      | E1497A/E1498A V743 controllers                     |
| Documentation                                                                                                                                                                     | V743 controller manuals                            |
| Use Case                                                                                                                                                                          | embedded VXI system controller                     |
| Notes                                                                                                                                                                             |                                                    |
| V743 family capabilities from Agilent/HP V743/E1498A OEM descriptions applied to E1497A controller identity. Confirm CPU clock and installed RAM on the specific E1497A assembly. |                                                    |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.