

HP E8400-Series VXI Mainframes

Cooler, Smarter, and Less Expensive

You know the benefits of VXI...reliability, ease of use, increased efficiency, and interoperability. You also know the costs of VXI. But did you know that over the past year, HP has been systematically rolling the VXI product line to introduce leading-edge VXI products that are dramatically lower in price? We believe this amounts to the biggest VXI breakthrough since the standard was announced ten years ago, and our new line of "Smart&Cool" VXI mainframes is no exception.

Test engineers using VXI choose this technology because their test systems must stand up to rigorous environments and produce reliable results. If you're responsible for getting innovative, dependable products out on time – cost effectively – there's no better place to start than with a new HP VXI mainframe.

First came the HP E8400A mainframe with its state-of-the-art cooling technology and mainframe monitoring. Now, we've added four more models to the series—giving you more choices in power and system monitoring, while lowering overall cost/slot.

HP E8400 VXI C-size Mainframe Series: "Smart&Cool"

	Usable Power	Slots	Monitoring
HP E8400A	700W (40 deg C)	13	Basic
HP E 8401A*	550W	13	Basic
HP E 8402A	550W	13	Enhanced
HP E 8403A	1000W	13	Basic
HP E 8404A	1000W	13	Enhanced

* Best price/slot value



HP E8400A/01A/03A
Basic monitoring mainframe



HP E8402A/04A
Enhanced monitoring mainframe

Keeping Cool

The power and cooling of HP E8400 series mainframes ensure that all VXI modules operate within their proper environmental range and work as specified. All E8400 series mainframes feature superior cooling technology based on an impeller fan that is amazingly quiet.

System Monitoring

Basic system monitoring (HP E8400A, HP E8401A, and HP E8403A) provides data on the power supply, fans, temperature, and backplane. A diagnostic connector located on the front of the mainframe provides connection to allow remote monitoring of power supply voltages, power supply and backplane temperature, and fan function.

Enhanced system monitoring (HP E8402A and HP E8404A) provides a color front-panel display through which you can check power supply voltages and temperature in any slot as well as monitor temperature along the entire length of a high-power module. Enhanced closed-loop cooling control allows you to track exhaust air temperature for any high-power module as it approaches its limit. It also allows you to monitor changes in fan speed and temperature through status and stripchart screens. Additional troubleshooting tools include stripcharts, histograms, and complete system history for government, regulatory, or ISO 9000 applications.

Choose enhanced monitoring when you need calibrated measurements of closed-loop cooling control, absolutely minimal system downtime, traceability of system data, or when you to monitor remote systems.

Powering Up

The 1000W mainframes (HP E8402A and HP E8404A) add an extra level of confidence in systems that use many identical modules. While most test systems require less than 300W of power, choose a 1000W mainframe if you are unsure of what you'll need to add to your test system in the future.

Trading Up

To achieve the improved cooling and increased power, the HP E8400 series mainframes are taller and wider than the HP E1400 series products. To keep the overall mainframe cost down, the HP E8400 series mainframes do not have upgrade kits.

The HP E1400 Series C-size VXI mainframes are still available. The compact HP E1421B 6-slot mainframe is ideal for portable applications.

HP E1400 VXI C-size Mainframe Series:

	Usable Power	Slots	Monitoring
HP E1401B	900W (40 deg C)	13	n/a
HP E1421B	450W (55 deg C)	6	n/a

For those of you using B-size VXI, HP offers the HP E1300 series of B-size mainframes. In addition, the HP E1403C adapts A- or B-size VXI or VME modules for use in C-size VXI mainframes.

HP E1300 VXI B-size Mainframe Series

	Usable Power	Slots
HP E1300B	120W (40 ° C)	9
HP E1301B	120W (55 ° C)	9
HP E1302A	350W (55 ° C)	20

The Rest of the Story

Choosing a mainframe is a critical step in configuring a VXI test system. The types of measurements you need to make determine the instruments you need to select. In addition to ensuring that your mainframe has the power and cooling you need for these instruments, you need to determine your software and controller requirements.

While HP offers a full line of VXI products — from software and I/O to controllers, instrumentation, and accessories — HP VXI products are completely *VXIplug&play* compatible. Use HP VXI products to build industry-standard test systems with confidence.

The HP Advantage

Improving on standards to make testing better, faster, and now even more cost-effective, HP manufactures a full range of VXI hardware and software components—with the consistent quality you expect from Hewlett-Packard. By incorporating HP's newest VXI products—from the E8400 series mainframes to our M-modules and other instrument modules, you can realize savings of up to 35% in overall VXI system costs.

At the same time we're engineering new products that lower system costs, we're also working on improving their usability. Data acquired in on-going research with test engineers enable us to design VXI products

that you can easily access and maintain, from cables to instruments to CPUs.

Working with HP's worldwide support and service organizations enables you to simplify ongoing test maintenance. All HP VXI systems carry a three-year return-to-HP or one-year on-site warranty. Optional support includes extended on-site maintenance, instrument calibration, fast replacement guarantee, telephone assistance and bulletin board service.

But don't just take our word for it. Here's what your colleagues have told us about their experiences in working with HP VXI.

/// I started here as a senior technician. Ten years later I'm an engineering manager and that's because of HP, I believe. ///

/// I basically bought everything that I could buy from HP for one reason: HP stands behind their products. ///

/// Failure rate on the equipment? None. It just works great. ///



For more information about HP products and solutions in electronics manufacturing, visit our website **<http://www.hp.com/go/manufacturing>**. To learn about other HP VXI products, applications and services, or for a current sales office listing, visit our website **<http://www.hp.com/go/vxi>**, or contact one of the following centers and ask for a test and measurement sales representative.

United States:

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

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Hewlett-Packard Canada Ltd.
5150 Spectrum Way
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