Custom Systems: Build-Your-Own Versatility

HP 75000 Custom Systems save you time because you don't have to build your own system from scratch. We can supply you with everything you need in one system.

The Series B cardcage is a modular architecture designed to configure in minutes. Instrumentation and switch cards can be easily inserted into slots in the rear of the instrument. When the cardcage is turned on, it automatically identifies the cards and sets the menu accordingly. To save even more time, order the Installation Option and HP will install the cards for you.

Industry Standards: Path to the Future

The Series B is a member of the HP 75000 family of industry-standard VXI products. It is programmed with easy-to-understand Standard Commands for Programmable Instruments (SCPI) over HP-IB (an IEEE-488.2 standard).

Flexible Architecture

The HP 75000 Custom Systems are built on a flexible architecture that allows you great versatility in the way you configure your system:

- Seven external B-size VXI slots, plus two internal slots for optional multimeter
- Three external A-size VXI slots
- 112 3-wire channels (336 single-ended)
- Five high-performance instrument cards
- 18 high-quality switch cards
- Compatible with VME cards (P1 connector only)

Optional Features

- IBASIC controller (puts the power of a workstation in the instrument)
- ½, 1-, or 2-MB nonvolatile memory for program/data storage
- Power for portable or UPS capability—automatically switches to dc power operation when ac power fails
- 3½-inch floppy disk drive (LIF and/or DOS format)
- 20-MB hard disk drive (LIF and/or DOS format)

Series B Cards—The Right Connections

Series B cards come with removable screw terminal connectors designed for fast and easy wiring to your system. No-solder connections and built-in strain reliefs ensure that wires won't come loose.

Customize Your System

An HP E1399A breadboard card makes it easy for you to develop custom instrumentation and switches. We supply you with access to the cardcage power supplies, backplane interface circuitry, and logic circuits, and we provide a comprehensive manual.

Plug-In Cards

Multimeter (two-slot card mounted internally or in rear slots)

- Programmable speed/resolution trade-off
- Balanced differential input for noise rejection
- Variety of measurements (dc volts, ac volts, ohms)
- Floats up to 120 V above ground (450 V pk terminal to chassis)
- Integration technique for noise rejection (84 dB @ 22 bits)
- 150 dB common mode noise rejection

Relay Multiplexers

- Break-before-make operation
- Detachable terminal block provided
- Space available for series and shunt-signal conditioning

FET Multiplexers

- Break-before-make operation
- Detachable terminal block provided
- Space available for series and shunt-signal conditioning

D/A Converter

- Output voltage or current on each channel
- Software calibration
- Four isolated channels

Counters

- Totalize
- Frequency
- Period
- Pulse width
- Time interval
- Gated totalize
- Up/Down count
- Ratio (range)

Digital I/O

- Four 8-bit bidirectional data ports
- Three handshake lines (GPIO protocols)
- TTL logic levels
- Plug-compatible with industry standard opto-isolators

Form C General Purpose Switch

Ordering Information	Price
Cardcage Required (choose one)	
E1300A Blank Front Panel	$2,320
E1301A Front Panel	$2,900
Plug-In Cards Required	
Opt 009 Internal Multimeter (E1326B)	$1,440
Recommended	
E1326-80005 Banana Plug Adapter for Multimeter	
Opt 500 Installation of Cards	
Optional (choose maximum of seven)	
E1345A 16-Chl Relay Multiplexer	$660
E1347A 16-Chl Thermocouple Relay Multiplexer	$760
E1346A 48-Chl Single-Ended Relay Multiplexer	$810
E1355A 8-Chl 120 Ω Strain Relay Multiplexer	$925
E1356A 8-Chl 350 Ω Strain Relay Multiplexer	$925
E1351A 16-Chl FET Multiplexer	$875
E1353A 16-Chl Thermocouple FET Multiplexer	$975
E1352A 32-Chl Single-Ended FET Multiplexer	$1,000
E1357A 8-Chl 120 Ω Strain FET Multiplexer	$1,125
E1358A 8-Chl 350 Ω Strain FET Multiplexer	$1,125
E1330B Quad 8-bit Digital I/O	$625
E1364A 16-Chl Form C Switch	$660
E1328A 4-Chl D/A Converter	$1,110
E1332A 4-Chl Counter/Totalizer	$910
E1333A 3-Chl Universal Counter	$910
Computer Recommended	
HP Vectra (or IBM-AT compatible) with mouse	
MS-DOS 3.0 or later	
Memory: 640 KB Labtech Notebook 2 MB Labtech Control	
Disks: 20-MB hard disk or 3½-in floppy drive	
Interface: HP 82335A (or PCIIA compatible)	
Printer: HP QuietJet or HP LaserJet	
Software (choose one)	
Opt 020 IBASIC with 512 K RAM	$1,000
Opt 021 IBASIC with 1 MB RAM	$1,600
Opt 022 IBASIC with 2 MB RAM	$2,400
Disk Drives Recommended (choose one)	
Opt 005 3½-in Floppy Drive	$850
Opt 006 20-MB Hard Disk	$1,900
Opt 007 Floppy and Hard Disk	$2,100
Other	
Opt 008 dc Power	$700
E1324A RS-232C/422 Data Comm Card	$650

For the most current prices and product information, contact your local Hewlett-Packard sales office—see page 654.