

HP E1406A  
**VXI GPIB Command Module**



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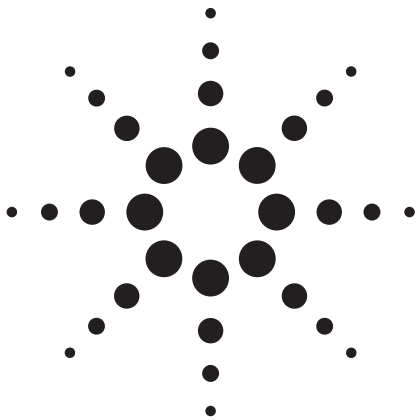
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# Agilent E1406A

## VXI GPIB Command Module, C-Size

### Data Sheet

- 1-Slot, C-size, message-based commander
- GPIB, RS-232, Slot 0, and Resource Manager
- 2 MB RAM
- MXIbus protocol support for high throughput
- Easy to program as message-based instruments

### Description

The Agilent Technologies E1406A Command Module is a **C-size, 1-slot VXI message-based commander** that provides **Slot 0** and **Resource Manager** functions. It can act as a VMEbus system controller and GPIB (IEEE-488)-to-VXIbus interface device for transparently communicating with any manufacturer's message-based VXI modules. The E1406A Command Module has FLASH memory for downloadable drivers, so you can program Agilent register-based devices using the high-level SCPI programming language. It also translates SCPI commands for register-based instruments and therefore, makes these VXI devices as easy to program as message-based instruments.

This command module also includes a MXIbus Resource Manager for VXIbus extensions. This allows you to maintain high-throughput performance in multiple mainframe systems. With its flexible triggering and clock interfacing, you can synchronize the VXI backplane 10 MHz clock to an external TTL signal.

Refer to the Agilent Technologies Website for instrument driver availability and downloading instructions, as well as for recent product updates, if applicable.



Agilent E1406A



Agilent Technologies

## Product Specifications

### General Characteristics

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Processor:               | 16 MHz 68000                                                                     |
| Interface:               | IEEE-488                                                                         |
| Clock accuracy:          | 0.005% elapsed time                                                              |
| Memory:                  | 1.75 MB FLASH max.<br>2 MB RAM max.                                              |
| Shared memory:           | 512 KB max.                                                                      |
| Agilent IBASIC:          | Yes                                                                              |
| Slot 0 functions:        | Yes                                                                              |
| Resource manager:        | Yes                                                                              |
| MXIbus resource manager: | Yes                                                                              |
| CLK10:                   | Yes                                                                              |
| Temperature coefficient: | 0.001%, to 0.012% of time since last set ( <i>per° C change in temperature</i> ) |
| Resolution:              | 1.0 s                                                                            |

### CLK10

|                      |                         |
|----------------------|-------------------------|
| Input:               | TTL or low-level ac     |
| Minimum input level: | 40 mV p-p               |
| Maximum input level: | 42.5 V p-p              |
| Output:              | TTL                     |
| Jitter:              | 0.03% (–55 dB)          |
| Initial accuracy:    | 50 ppm                  |
| Maximum stability:   | ± 20 ppm/year (0-55° C) |
| Typical stability:   | ± 3 ppm/year at 25° C   |

### Trigger Input

|                        |                              |
|------------------------|------------------------------|
| Levels:                | TTL                          |
| Input load:            | 55 kΩ, 50 pF                 |
| Maximum rate:          | 12.5 MHz (TTL), 40 MHz (ECL) |
| Minimum pulse width:   | 30 ns (TTL), 12.5 ns (ECL)   |
| Maximum trigger delay: | 30 ns                        |

### RS-232 Interface (for terminal only)

|                             |                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------|
| Baud rate:                  | 300, 1200, 2400, 4800, 9600, 19200                                                 |
| Parity:                     | Even, Odd, One, Zero, None                                                         |
| Character size:             | 7, 8                                                                               |
| Pace:                       | Xon/Xoff, None                                                                     |
| Hardware handshake:         | DTR, RTS                                                                           |
| Buffer size:                | 16 characters                                                                      |
| RS-232 terminals supported: | HP 700/92, HP 700/94, HP 700/22,<br>HP 700/43; WYSE WY-30, DEC VT100,<br>DEC VT220 |
| VXI compliance:             | Revision 1.4 compliance                                                            |

## General Specifications

### VXI Characteristics

|                  |                                                   |
|------------------|---------------------------------------------------|
| VXI device type: | Message-based commander                           |
| Size:            | C                                                 |
| Slots:           | 1                                                 |
| Connectors:      | P1/2                                              |
| Shared memory:   | Yes                                               |
| VXI buses:       | Local Bus A<br>TTL Trigger Bus<br>ECL Trigger Bus |

**Instrument Drivers** - See the Agilent Technologies Website ([http://www.agilent.com/find/inst\\_drivers](http://www.agilent.com/find/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 |
| Panel Drivers:                   | Yes |
| VXIplug&play Win Framework:      | Yes |
| VXIplug&play Win95/NT Framework: | Yes |
| VXIplug&play HP-UX Framework:    | No  |

### Module Current

|         | I <sub>PM</sub> | I <sub>DM</sub> |
|---------|-----------------|-----------------|
| +5 V:   | 0.1             | 0.1             |
| +12 V:  | 0               | 0               |
| –12 V:  | 0               | 0               |
| +24 V:  | 0               | 0               |
| –24 V:  | 0               | 0               |
| –5.2 V: | 0               | 0               |
| –2 V:   | 0               | 0               |

### Cooling/Slot

|                         |       |
|-------------------------|-------|
| Watts/slot:             | 19.00 |
| ΔP mm H <sub>2</sub> O: | 0.30  |
| Air Flow liter/s:       | 1.50  |

## Ordering Information

| Description                                  | Product No. |
|----------------------------------------------|-------------|
| VXI GPIB Command Module, C-Size              | E1406A      |
| Service manual                               | E1406A 0B3  |
| Taiwan - Chinese localization                | E1406A AB0  |
| Korea - Korean localization                  | E1406A AB1  |
| China - Chinese localization                 | E1406A AB2  |
| Germany - German localization                | E1406A ABD  |
| Spain - Spanish localization                 | E1406A ABE  |
| France - French localization                 | E1406A ABF  |
| Japan - Japanese localization                | E1406A ABJ  |
| Italy - Italian localization                 | E1406A ABZ  |
| 3 yr. retn. to Agilent to 1 yr. OnSite warr. | E1406A W01  |
| 5 Yr. Return Repair Service                  | E1406A W50  |

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