



# 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.

# **Product Specifications**

**General Characteristics** 

Processor: 16 MHz 68000 Interface: IEEE-488

Clock accuracy: 0.005% elapsed time

Memory: 1.75 MB FLASH max.

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 (per° C change in temperature)

Resolution: 1.0 s

CLK10

Input: TTL or low-level ac

Minimum input level:40 mV p-pMaximum input level:42.5 V p-pOutput:TTL

**Jitter:** 0.03% (–55 dB)

Initial accuracy: 50 ppm Maximum stability:  $\pm$  20 ppm/year (0-55° C)

Typical stability: ± 3 ppm/year at 25° C

Trigger Input

Levels: TTL

Input load: 55 k $\Omega$ , 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, NoneHardware handshake:DTR, RTSBuffer size:16 characters

**RS-232 terminals supported:** HP 700/92, HP 700/94, HP 700/22,

HP 700/43; WYSE WY-30, DEC VT100,

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 TTL Trigger Bus

Instrument Drivers - See the Agilent Technologies Website

(http://www.agilent.com/find/inst\_drivers) for driver availability and

ECL Trigger Bus

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  $\triangle P \text{ mm H}_2 0$ : 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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