

# Agilent NAI8000/01A PCI to MXI-2 Interface Kit

## Technical Specifications



- Highest performance interface card for connection to HP UNIX<sup>®</sup> workstations
- External controller flexibility
- Includes HP-UX\* 10.20 Plug&Play Visa Libraries
- Ability to configure multiple mainframe systems
- Supports VXI modules with *VXIPlug&Play* HP-UX 10.20 Drivers

The Agilent NAI8000A PCI to MXI-2 interface kit as distributed by Agilent Technologies provides connection between a C-size VXI mainframe and an HP UNIX workstation with a PCI backplane. The NAI8001A MXI-2 VXI bus Extender module allows connection of multi-mainframes via the MXI-2 cable link. Both the NAI8000A and NAI8001A are based on the National Instruments MXI-2 interface kit and are distributed and warranted by Agilent. Consult National Instruments for any additional information.

When used with an external HP UNIX workstation with a PCI backplane, the NAI8000A provides both the PCI workstation plug in card and the C-size VXI controller module for the VXI mainframe. The mainframe is connected to the PCI card in the workstation via the 2-meter MXI-2 cable provided in the kit. Using external controllers delivers the benefits of an embedded VXI computer, such as high-performance data transfers, shared memory communication, and direct control of the VXI bus, while still maintaining the advantages of flexibility, a wide selection of price and performance workstations and efficient use of only one VXI bus slot.

For multiple VXI mainframe systems, an NAI8001A extender module is installed into each additional mainframe and connected via a 1-meter MXI-2 cable in a daisy-chain configuration.

Note: The NAI8000A and NAI8001A only support VXI instrumentation cards that include HP-UX 10.20 VISA Plug&Play drivers. VXI instrumentation cards with C-SCPI or I-SCPI drivers or any software that use the HP SICL library will not work with the NAI8000A or NAI8001A MXI-2 based products. Check the Agilent Website or VXI Instrument Driver Table in the VXI Data Book for the current list of Agilent cards offering *VXIPlug&Play* drivers.

### Mainframe Extender Support for MXI-2 Bus

The NAI8001A MXI-2 VXI bus Extender can only be used to extend VXI systems using the NAI8000A PCI to MXI-2 Interface as the slot 0 controller and running HP-UX 10.20. VXI Characteristics

UNIX is a registered trademark of the Open Group.

MS Windows and Windows NT are U.S. registered trademarks of Microsoft Corp.

\* HP-UX Release 10.20 and later and HP-UX Release 11.00 and later (in both 32 and 64-bit configurations) on all HP 9000 computers are Open Group UNIX 95 branded products.



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## VXI Characteristics

VXI device type:	Register based
Data transfer bus:	n/a
Size:	C
Slots:	1
Connectors:	P1/2
Shared memory:	n/a
VXI busses:	TTL Trigger Bus (T), ECL Trigger Bus (E)
C-size compatibility:	n/a

## Instrument Drivers

See the Agilent Website ([http://www.agilent.com/go/inst\\_drivers](http://www.agilent.com/go/inst_drivers)) for driver availability and downloading.

Command module firmware:	n/a
Command module firmware rev:	n/a
I-SCPI MS Windows® 3.1:	n/a
I-SCPI Series 700:	n/a
C-SCPI LynxOS:	n/a
C-SCPI Series 700:	n/a
Agilent Panel Drivers:	n/a
VXIplug&play Windows Framework:	n/a
VXIplug&play Windows 95/NT® Framework:	n/a
VXIplug&play HP-UX Framework:	n/a

## Module Current

	IPM	IDM
+5 V:	2.5	1.0
+12 V:	0	0
-12 V:	0	0
+24 V:	0	0
-24 V:	0	0
-5.2 V:	0.180	0.045
-2 V:	0.080	0.020

## Cooling/Slot

Watts/slot:	19W
DeltaP mm H <sub>2</sub> O:	0.08
Air flow liter/s:	1.5

## Ordering Information

<b>NAI8000A</b>	PCI to MXI-2 Interface Kit Includes one 2-meter MXI-2 Cable
<b>NAI8001A</b>	MXI-2 VXIbus Extender Includes one 1-meter MXI-2 Cable

## Warranty Information

The NAI8000A and NAI8001A come with a 90 day replacement warranty. During that period, Agilent will replace any failed units without charge to the customer.

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