

Unibus Adapter with KW11-K Clocks

Model AQP-2303



The AQP-2303 is an option module that allows connection of external Unibus modules to a NuVAX or NuPDP system. It additionally provides two programmable clocks

The AQP-2303 consists of a single slot PCI controller, a Unibus I/O bulkhead panel, a dual-width Unibus module and cables.

The AQP-2303 installs into a single PCI slot and connects to the bus adapter and/or other option modules by way of a top-edge flat ribbon connector.

The Unibus module installs into Unibus connectors A and B of an expansion chassis backplane or user's equipment, replacing the Unibus-In cable. Up to 19 Unibus loads are supported in a Digital Unibus-compatible expansion chassis.

The AQP-2303 provides two dual programmable Digital software-compatible KW11-K real-time clocks. Each of the clocks provide a 16-bit programmable A clock and an 8-bit programmable B clock. Connection of the clocks to user equipment is via a DB25 connector on a PCI I/O bulkhead.

Provides a migration path. The AQP-2303 allows users to migrate to high performance systems NuVAX or NuPDP systems retaining their Unibus I/O without loss of function or performance.

Provides full Unibus Support. The AQP-2303 provides complete support for:

- Unibus PIO data transfers including read word, data-input-pause, write word and write byte.
- Unibus DMA data transfers including read word, write word, and write byte.
- Supports Unibus interrupt levels: BR4, BR5, BR6. Consult the factory for custom solutions if BR7 is required.

Unibus Termination

The AQP-2303 provides Unibus termination for one end of the Unibus. The user must ensure the Unibus is terminated at the end of the Unibus within the expansion chassis or user's equipment.

Unibus Parity

Unibus parity signals PA and PB are terminated but otherwise not supported by the AQP-2303.

Specifications

Dimensions	
AQP-2303-A Controller	PCI short card 6.88" by 4.20" (17.46 cm by 10.67cm)
CAU-2004 Unibus Module	Dual-width Unibus module 5.19" by 8.42" (13.18 cm by 21.39 cm)
CPX-2003 I/O Panel	Double B-size 5.3" by 3.3" (13.5 cm by 8.4 cm)
CAB-1104-8	8-boot, terminated with a 100-pin high density connector at each end.
Electrical	
AQP-2303-A	2.5 amps @ 5.0 volts DC ±12 volts DC not used
Bus Loading	1 DC load, 2 AC loads
Bus Drive Capability	19 additional DC loads
Environmental	
Operating Conditions:	
Temperature	15° to 32° C (59° to 90° F)
Relative Humidity	20% to 80% non-condensing
Storage Conditions:	
Temperature	-40° to 66° C (-40° to 151° F)
Relative Humidity	10% to 90% non-condensing

Ordering Information

AQP-2303-AA External Unibus adapter with two KW11-K clocks. Package includes bus adapter and Unibus interconnect kit.



KW11-K Clock Signals

Pin	Signal	Signal	Pin
5	GND	TEST IN 1 L	18
6	STP1 OUT#1 L	TEST IN 2 L	19
7	STP1 OUT#2 L		20
8	GND		21