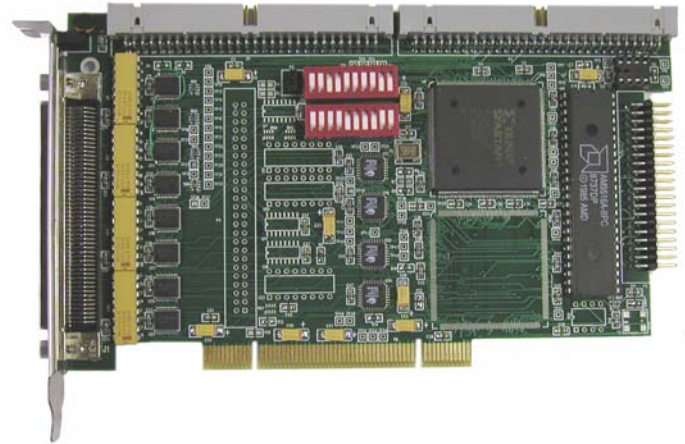


## DQP-1500

### DRQ3B Compatible Option Module for NuVAX



The DQP-1500 PCI-based option module works with Logical's NuVAX bus adapter to allow users to migrate from a Qbus system to a PCI-based system while maintaining their investment in software and user equipment.

The DQP-1500 installs into a single PCI slot and connects to the NuVAX bus adapter and, optionally, other PCI-based Qbus option modules by way of top-edge flat ribbon connectors. The DQP-1500 only requires DC power from the slot.

The DQP-1500 is a plug and play replacement for Digital's DRQ3B Qbus I/O controller. Like the DRQ3B, the DQP-1500 is a high performance 16-bit parallel interface designed for realtime data collection or for high-speed interprocessor communications. It provides PIO and DMA transfers between a Qbus system and external equipment at transfer rates of up to 1.3 MHz of 16-bit words.

The DQP-1500 is software compatible with Digital's DRQ3B. The module has two independent 16-bit channels for connection to external devices, allowing it to receive or send data or do both concurrently. Additionally, it can transfer data between two memory or I/O page locations.

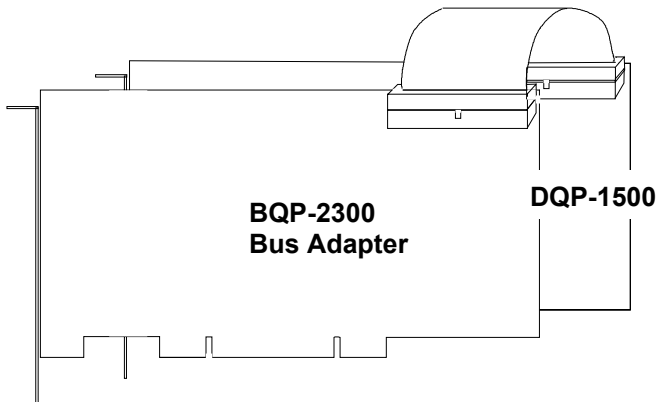
Data transfers are selectable as burst, block or extended block mode DMA. Interrupt priority levels are switch selectable and interrupt conditions are program selectable.

**High Performance.** Like the DRQ3B, the DQP-1500 provides transfer rates of up to 1.3 megawords per second (2.6 Mbytes per second) in extended block mode. Its double buffering capability allows the DQP-1500 to transfer data continuously up to this maximum rate.

**Software Compatible.** The DQP-1500 is a software compatible plug-and-play replacement for the DRQ3B.

**Hardware Compatible.** The DQP-1500 is signal and user connector compatible with Digital's DRQ3B allowing use of existing user cables and equipment.

**Easy to Maintain.** The DQP-1500 is compatible with Digital's DRQ3B diagnostics.



## User Applications

### General I/O Application

Use the DQP-1500 to connect to external user equipment such as data acquisition, A/D, telemetry or industrial control equipment supporting a DRQ3B compatible interface.

### Parallel Computer Link

Use the DQP-1500 to provide a parallel data link to another system supporting a DRQ3B compatible interface.

## Specifications

### Physical Dimensions

PCI Controller	PCI short card, +5 volt only, measuring 6.88 in by 4.20 in (17.46 cm by 10.67 cm)
Adapter Panel	Provides user connection to two 50-pin DRQ3B style connectors.
Panel Adapter Cable	8-foot cable terminated with 100-pin high density connectors.
Qbus Adapter Interconnect Cable	50-pin flat ribbon cable

### Interface

User Connections	Two 50-pin DRQ3B style connectors
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### Electrical

Power Required:	
+5.0 volts dc	1.0 amp
±12 volts dc	Not used
I/O Port Transceivers:	
Source	16 ma
Sink	64 ma

### Maximum Throughput

Burst Mode	500 kHz (1 Mbyte/sec)
Block Mode	1.1 MHz (2.2 Mbytes/sec)
Extended Block Mode	1.3 MHz (2.6 Mbytes/sec)

### Environmental

Operating Conditions:	
Temperature	5° to 50° C (41° to 122° F)
Relative Humidity	20% to 80% noncondensing
Storage Conditions:	
Temperature	-40° to 66° C (-40° to 150° F)
Relative Humidity	10% to 95% noncondensing

## Ordering Information

DQP-1500-AA	PCI DRQ3B option controller, adapter panel, adapter panel interconnect cable, bus adapter flat ribbon cable and owners manual.
BQP-2300-AA	NuVAX Qbus adapter with owners manual.

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