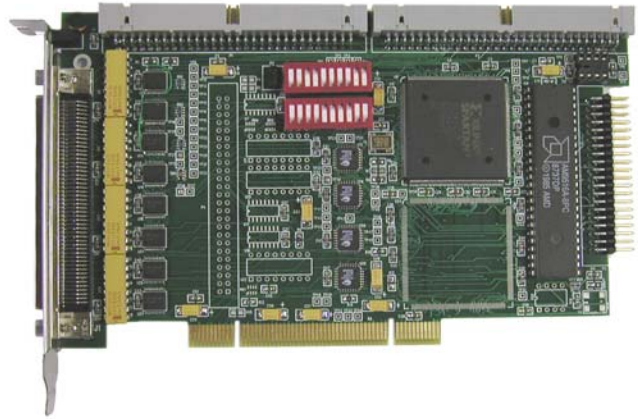


DQP-1500

DRQ3B Compatible Option Module for FutureVAX



The DQP-1500 PCI-based option module works with *Logical's FutureVAX* 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 *FutureVAX* 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.

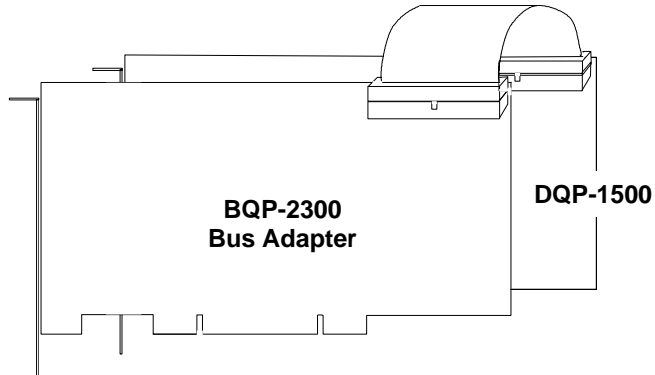
Data transfers are selectable as burst, block or extended block mode DMA. Interrupt priority levels are switch selectable and interrupt conditions are program selectable.

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
------------------	-----------------------------------

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 bytes/sec)
Extended Block Mode	1.3 MHz (2.6 bytes/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	<i>FutureVAX</i> Qbus adapter with owners manual.

