

DCQ-1400

DRV11-J Compatible Controller



The DCQ-1400 is a parallel interface for Q-bus systems that provides 64 input/output data lines. The DCQ-1400 is software and hardware compatible with Digital's DRV11-J Q-bus controller and can be used as a direct replacement.

The DCQ-1400 includes an advanced interrupt structure with bit interruptability up to 16 lines, programmable interrupt vectors, and program selection of fixed or rotating interrupt priority within the DCQ-1400.

The DCQ-1400's interrupt capability for real time response make it especially useful for sensor I/O applications. It can also be used as a general purpose interface to custom devices, and two DCQ-1400's can be connected back-to-back as a link between two systems.

The DCQ-1400 is a dual-width controller that can be installed into a variety of PDP-11 and MicroVAX Digital systems.

DRV11-J Compatible. The DCQ-1400 provides the same operating features as Digital's DRV11-J:

- Four 3-state 16-bit parallel I/O ports
- Acceptance of up to 16 external interrupt requests
- Programmable interrupt vector addresses
- Program-controlled input/output operations
- Programmable operating modes.

Software Compatible. The DCQ-1400 is application and diagnostic compatible providing a direct replacement for the DRV11-J. Diagnostic CVDRDB0 requires supplied patches to run all tests.

Hardware Compatible. The DCQ-1400 is signal and connector compatible to Digital's DRV11-J allowing use of existing Digital user cables.

Applications

General I/O Application: Use the DCQ-1400 to connect to external user equipment such as data acquisition, A/D, telemetry or industrial control equipment supporting a DRV11-J compatible interface for 16-bit parallel data transfer or to provide interrupt services for up to 16 lines.

Parallel Computer Link: Use the DCQ-1400 to provide a parallel data link to another system supporting a DRV11-J compatible interface.

Ordering Information

DCQ-1400-AA	Equivalent to Digital's DRV11-J module. Includes controller, test cable, and owners manual.
DCQ-1400-AB	Equivalent to Digital's DRV11-J for BA23 and BA123 systems. Includes controller, cabinet kit, test cable, and owners manual.

Specifications

Physical Dimensions

Controller	Dual-width Q-bus module, 8.9 inches by 5.2 inches (22.8 cm by 13.2 cm)
Cabinet Kit	Compatible with Digital's CK-DRV1J-KA and CK-DRV1J-KB cabinet kits.
Panels	Two "A" size panels measuring 1 inch by 4 inches (2.5 cm by 10.2 cm).
Cables	Two 50-pin ribbon cables.

Electrical

Power Required:	
+5.0 volts DC	2.0 amps
±12 volts	Not used
Q-Bus Loading	2 AC loads, 1 DC load
Logic Levels	TTL

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