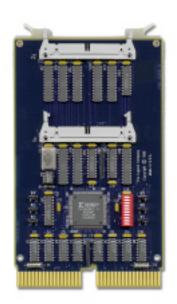
DCQ-1400

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 measur-

ing 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