

DQP-1400

DRV11-J Compatible Option Module for FutureVAX



The DQP-1400 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-1400 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-1400 only requires DC power from the slot.

The DQP-1400 is a plug and play replacement for Digital's DRV11-J general purpose controller. The DQP-1400 is a parallel interface for Q-bus systems that provides 64 input/output data lines.

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

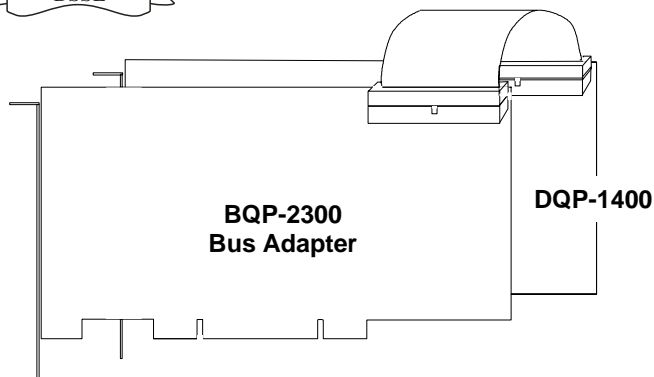
The DQP-1400's bit interrupts for real time response make it especially useful for sensor I/O applications. It can also be used as a general purpose interface to custom devices, and two DQP-1400s can be connected back-to-back as a link between two systems.

DRV11-J Compatible. The DQP-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 DQP-1400 is application and MDM diagnostic compatible providing a direct replacement for the DRV11-J.

Hardware Compatible. The DQP-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 DQP-1400 to connect a workstation 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 DQP-1400 to provide a parallel data link to another system supporting a DRV11-J compatible interface.

Specifications

Physical Dimensions

PCI Controller	PCI short card, measuring 6.88 in by 4.20 in (17.46 cm by 10.67 cm)
Adapter Panel	Provides user connection to two 50-pin DRV11-J style connectors.
Panel Adapter Cable	8-foot cable terminated with 100-pin high density connectors.

Electrical

Power Required:	0.5 amps @ 5.0 volts 0.3 amps @ 3.3 volts
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Environmental

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

Pin Assignments

Signal Name Pin	J1 Pin	Signal Name	J2
DRV11J RDY A	29	DRV11J RDY D	29
DRV11J RPLY A	33	DRV11J RPLY D	33
USER RDY A	31	USER RDY D	31
USER RPLY A	27	USER RPLY D	27
A I/O 15	45	D I/O 15	45
A I/O 14	46	D I/O 14	46
A I/O 13	43	D I/O 13	43
A I/O 12	49	D I/O 12	49
A I/O 11	48	D I/O 11	48
A I/O 10	44	D I/O 10	44
A I/O 9	50	D I/O 9	50
A I/O 8	47	D I/O 8	47
A I/O 7	41	D I/O 7	41
A I/O 6	36	D I/O 6	36
A I/O 5	42	D I/O 5	42
A I/O 4	35	D I/O 4	35
A I/O 3	40	D I/O 3	40
A I/O 2	38	D I/O 2	38
A I/O 1	39	D I/O 1	39
A I/O 0	37	D I/O 1	37
GND	26	GND	26
GND	28	GND	28
GND	30	GND	30
GND	32	GND	32
GND	34	GND	34
DRV11J RDY B	20	DRV11J RDY C	20
DRV11J RPLY B	24	DRV11J RPLY C	24
USER RDY B	22	USER RDY C	22
USER RPLY B	18	USER RPLY C	18
B I/O 15	6	C I/O 15	6
B I/O 14	5	C I/O 14	5
B I/O 13	8	C I/O 13	8
B I/O 12	2	C I/O 12	2
B I/O 11	3	C I/O 11	3
B I/O 10	7	C I/O 10	7
B I/O 9	1	C I/O 9	1
B I/O 8	4	C I/O 8	4
B I/O 7	10	C I/O 7	10
B I/O 6	15	C I/O 6	15
B I/O 5	9	C I/O 5	9
B I/O 4	16	C I/O 4	16
B I/O 3	11	C I/O 3	11
B I/O 2	12	C I/O 2	12
B I/O 1	13	C I/O 1	13
B I/O 0	14	C I/O 1	14
GND	17	GND	17
GND	19	GND	19
GND	21	GND	21
GND	23	GND	23
GND	25	GND	25

Ordering Information

DQP-1400-AA	PCI DRV11-J option controller, adapter panel, adapter cable, test cable and owners manual.
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