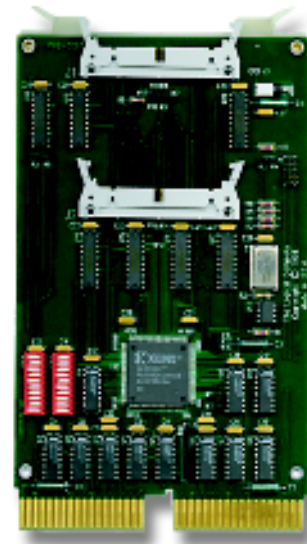


# DCQ-1100

## DRV11-WA Compatible Controller



The DCQ-1100 is a plug and play replacement for Digital's DRV11-WA general purpose controller. The DCQ-1100 provides a 16-bit parallel user interface for PIO and DMA transfers between a Q-bus system and external equipment. It can also serve as a link between a Q-bus system and another computer with a DRV11-WA or DR11-W compatible interface.

The DCQ-1100 is hardware and software compatible with Digital's DRV11-WA. It offers 22-bit addressing capability and permits data transfers at rates up to 400 Kbytes per second in burst mode.

The DCQ-1100 is a dual-width controller that can be installed into a variety of Digital's PDP-11 and MicroVAX systems.

**High Performance.** The DCQ-1100 provides a sustained throughput of 400 Kbytes per second.

**Software Compatible.** The DCQ-1100 is application software compatible providing a direct replacement for the DRV11-WA.

**Hardware Compatible.**

- The DCQ-1100 is signal and connector compatible with Digital's DRV11-WA allowing use of existing user cables and equipment.
- The DCQ-1100 can also be configured to be signal and connector compatible with Digital's Unibus DR11-W.

**Easy to Maintain.** The DCQ-1100 is compatible with Digital's DRV11-WA diagnostics.

## Applications

**General I/O Application:** Use the DCQ-1100 to connect to external user equipment such as data acquisition, A/D, telemetry or industrial control equipment supporting a DRV11-WA or DR11-W compatible interface.

**Parallel Computer Link:** Use the DCQ-1100 to provide a parallel data link to another system supporting a DR11-W or DRV11-WA compatible interface.

## Pin Assignments

Signal	Pin	J1	Pin	Signal
OUT15 H	1		2	OUT00 H
OUT14 H	3		4	OUT01 H
OUT13 H	5		6	OUT02 H
OUT12 H	7		8	OUT03 H
OUT11 H	9		10	OUT04 H
OUT10 H	11		12	OUT05 H
OUT09 H	13		14	OUT06 H
OUT08 H	15		16	OUT07 H
GND	17		18	GND
GND/ *CYRQB H	19		20	GND
GND/ *ENDCY H	21		22	GND
STATC H	23		24	GND
STATC H	25		26	GND
STATB H	27		28	GND
INIT H	29		30	GND
STATA H	31		32	SCYCLE H
WCINCENB H	33		34	GND
READY H	35		36	GND
INITV2 H	37		38	GND
CYRQA H	39		40	GND

Signal	Pin	J2	Pin	Signal
IN15 H	1		2	IN00 H
IN14 H	3		4	IN01 H
IN13 H	5		6	IN02 H
IN12 H	7		8	IN03 H
IN11 H	9		10	IN04 H
IN10 H	11		12	IN05 H
IN09 H	13		14	IN06 H
IN08 H	15		16	IN07 H
GND	17		18	GND
GND	19		20	GND
GND/ *GO H	21		22	GND
FNCT1 H	23		24	GND
C1 H	25		26	GND
FNCT2 H	27		28	GND
C0 H	29		30	GND
FNCT3 H	31		32	FNCT3 H
BAINCENB H	33		34	GND
A00 H	35		36	GND
ATTN H	37		38	GND
BUSY L,H	39		40	GND

\* Jumper selectable to support DR11-W.

## Specifications

### Physical Dimensions

Controller Dual-width Q-bus module,  
5.3 in by 8.4 in  
(13.3 cm by 21.3 cm)

### Interface

User Connections Two 40-pin DRV11-WA style  
connectors and one 2-pin  
connector

### Electrical

Power Required:  
+5.0 volts DC 1.0 amp  
±12 volts DC Not used  
Q-Bus Loading 2 ac loads, 1 dc load  
Logic Levels TTL

### Throughput

Burst Mode Up to 400 Kbytes per second  
Single Cycle Mode Up to 250 Kbytes per second

### 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

DCQ-1100-AA Standard data controller package.  
Includes controller, loopback test  
cable, and owners manual.

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