

CMD Technical Support

Jumper Settings for CQD220/223 Qbus to SCSI Controller

If you encounter any problems or have any questions regarding the information contained here, contact CMD's Technical Support Department directly at the following address and phone number.

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Pin Assignments

Physical pin number assignments and functions of the RS-232 port for accessing the On-Board Utility. Connector J1 pin assignments are listed in the following table when you are facing the 10 pin connector from the controller's top edge.

NOTE

For CMD's On-Board RS-232 Utility, only pin 3, 8 and grounds are used.

9	7	5	3	1
10	8	6	4	2

Pin Assignments for Utility Interface

Pin 1	No connect
Pin 2	Ground
Pin 3	TXD, transmit data for RS-232 application
Pin 4	Ground
Pin 5	No connect
Pin 6	No connect
Pin 7	No connect

Pin 8 RXD, receive data for RS-232 application
 Pin 9 Ground
 Pin 10 No connect

NOTE

You cannot use the CQD-220 when the RS-232 port connector is in place. Be sure to remove the connector in J1 before using the board. For write protection, contact CMD.

Host Adapter ID Selections

W3-1	W3-2	W3-3	Initiator ID
IN	IN	IN	Host adapter ID = 7, highest priority (F)
IN	IN	OUT	Host adapter ID = 6
IN	OUT	IN	Host adapter ID = 5
IN	OUT	OUT	Host adapter ID = 4
OUT	IN	IN	Host adapter ID = 3
OUT	IN	OUT	Host adapter ID = 2
OUT	OUT	IN	Host adapter ID = 1
OUT	OUT	OUT	Host adapter ID = 0, lowest priority

Note: (F) means factory setting.

CQD-220 Pin Assignments

W1	OUT	Reserved (F)
W2	IN	SCSI terminator power enabled (F)
W2	OUT	SCSI terminator power disabled
W3-4	IN	Enable tape fast search option
W3-4	OUT	Normal operation (F)
W3-5	IN	Tape Monitor Utility enabled (/T, /TM) Disk SCSIformat ON-LINE enabled (/M, /TM)
W3-5	OUT	Tape Monitor Utility disabled (F) Disk SCSIformat ON-LINE disabled (F)
W3-6	IN	Tape sync. mode disabled
W3-6	OUT	Tape sync. mode enabled (F)
W3-7	IN	Disk sync. mode disabled

W3-7	OUT	Disk sync. mode enabled (F)
W4 1-2	IN	Block mode DMA enabled (F)
W4 2-3	IN	Block mode DMA disabled
W5	IN	Adaptive DMA enabled (F)
W5	OUT	Adaptive DMA disabled
W6-1	IN	Auto-Bootstrap address = 773000 (F)
W6-1	OUT	Auto-Bootstrap address = 771000
W7-1	OUT	1.2 us DMA dwell time
W7-2	OUT	2.4 us DMA dwell time
W7-3	IN	4.8 us DMA dwell time (F)
W8 1-2	IN	Auto-Bootstrap enabled
W8 2-3	IN	Auto-Bootstrap disabled (F)
W9	IN	22-Bit addressing (F)**
W9	OUT	18-Bit addressing
W10 1-2	IN	Interrupt level 5
W10 2-3	IN	Interrupt level 4 (F)
W11, W12	OUT	Reserved (F)
W13	IN	Reserved, Rev. C (F)
W14 1-2	IN	27256 Eprom hardware Rev. C
W14 2-3	IN	27C512 Eprom hardware Rev. C (F)

Note: (F) means factory setting.

** Hardware Revision C only supports 22-bit addressing.

CSR Address Selections

CQD-220/TM CSR Address Selections (Rev. B & higher)P22015A in U40

Address	LSI-11	MicroVAX	W6-2	W6-3	W6-4
Standard	17772150	20001468	IN	IN	IN
Second	17760334	200000DC	IN	IN	OUT
Third	17760354	200000EC	IN	OUT	IN
Fourth	17760374	200000FC	IN	OUT	OUT
Fifth	17760340	200000E0	OUT	IN	IN
Sixth	17760344	200000E4	OUT	IN	OUT
Seventh	17760350	200000E8	OUT	OUT	IN

Disable disk

OUT

OUT

OUT

CQD-220/TM CSR jumper settings for tape (Rev. B & higher)

Address	LSI-11	MicroVAX	W6-5	W6-6	W6-7
Standard	17774500	20001940	IN	IN	IN
Second	17760404	20000104	IN	IN	OUT
Third	17760444	20000124	IN	OUT	IN
Fourth	17760504	20000144	IN	OUT	OUT
Fifth	17760544	20000164	OUT	IN	IN
Sixth	17760410	20000108	OUT	IN	OUT
Seventh	17760450	20000128	OUT	OUT	IN
Disable disk			OUT	OUT	OUT

**CQD-220/M CSR Address Selections (Rev. B & higher)
P22016A or P22016B in U40**

Addr	LSI-11	Micro VAX	W6-2	W6-3	W6-4	W6-5	W6-6
1	17772150	20001468	IN	IN	IN	OUT	OUT
2	17760334	200000DC	IN	IN	OUT	OUT	OUT
3	17760354	200000EC	IN	OUT	IN	OUT	OUT
4	17760374	200000FC	IN	OUT	OUT	OUT	OUT
5	17760340	200000E0	OUT	IN	IN	OUT	OUT
6	17760344	200000E4	OUT	IN	OUT	OUT	OUT
7	17760350	200000E8	OUT	OUT	IN	OUT	OUT
8	17760360	200000F0	OUT	OUT	OUT	OUT	OUT
9	17760364	200000F4	IN	IN	IN	IN	OUT
10	17760370	200000F8	IN	IN	OUT	IN	OUT
11	17760400	20000100	IN	OUT	IN	IN	OUT
12	17760404	20000104	IN	OUT	OUT	IN	OUT
13	17760410	20000108	OUT	IN	IN	IN	OUT
14	17760414	2000010C	OUT	IN	OUT	IN	OUT
15	17760420	20000110	OUT	OUT	IN	IN	OUT
16	17760424	20000114	OUT	OUT	OUT	IN	OUT
17	17760430	20000118	IN	OUT	IN	OUT	IN

18	17760434	2000011C	IN	OUT	OUT	OUT	IN
19	17760440	20000120	IN	OUT	IN	OUT	IN
20	17760444	20000124	IN	OUT	OUT	OUT	IN
21	17760450	20000128	OUT	IN	IN	OUT	IN
22	17760454	2000012C	OUT	IN	OUT	OUT	IN
23	17760460	20000130	OUT	OUT	IN	OUT	IN
24	17760464	20000134	OUT	OUT	OUT	OUT	IN
25	17760470	20000138	IN	IN	IN	IN	IN
26	17760474	2000013C	IN	IN	OUT	IN	IN
27	17760500	20000140	IN	OUT	IN	IN	IN
28	17760504	20000144	IN	OUT	OUT	IN	IN
29	17760510	20000148	OUT	IN	IN	IN	IN

CQD-220/T CSR Address Selections (Rev. B & higher) with the IC P20017A in U40

Addr	LSI-11	MicroVAX	W6-3	W6-4	W6-5	W6-6	W6-7
1	17774500	20001940	OUT	OUT	IN	IN	IN
2	17760404	20000104	OUT	OUT	IN	IN	OUT
3	17760444	20000124	OUT	OUT	IN	OUT	IN
4	17760504	20000144	OUT	OUT	IN	OUT	OUT
5	17760544	20000164	OUT	OUT	OUT	IN	IN
6	17760410	20000108	OUT	OUT	OUT	IN	OUT
7	17760450	20000128	OUT	OUT	OUT	OUT	IN
8	17760454	2000012C	OUT	OUT	OUT	OUT	OUT
9	17760414	2000010C	OUT	IN	IN	IN	IN
10	17760420	20000110	OUT	IN	IN	IN	OUT
11	17760460	20000130	OUT	IN	IN	OUT	IN
12	17760510	20000148	OUT	IN	IN	OUT	OUT
13	17760514	2000014C	OUT	IN	OUT	IN	IN
14	17760520	20000150	OUT	IN	OUT	IN	OUT
15	17760550	20000168	OUT	IN	OUT	OUT	IN
16	17760554	2000016C	OUT	IN	OUT	OUT	OUT
17	17760560	20000170	IN	OUT	IN	IN	IN
18	17760604	20000184	IN	OUT	IN	IN	OUT

19	17760610	20000188	IN	OUT	IN	OUT	IN
20	17760614	2000018C	IN	OUT	IN	OUT	OUT
21	17760620	20000190	IN	OUT	OUT	IN	IN
22	17760644	200001A4	IN	OUT	OUT	IN	OUT
23	17760650	200001A8	IN	OUT	OUT	OUT	IN
24	17760654	200001AC	IN	OUT	OUT	OUT	OUT
25	17760660	200001B0	IN	IN	IN	IN	IN
26	17760704	200001C4	IN	IN	IN	IN	OUT
27	17760710	200001C8	IN	IN	IN	OUT	IN
28	17760714	200001CC	IN	IN	IN	OUT	OUT
29	17760744	200001E4	IN	IN	OUT	IN	IN
30	17760750	200001E8	IN	IN	OUT	IN	OUT
31	17760754	200001EC	IN	IN	OUT	OUT	IN

The above information can be changed without notice.

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