

Appendix C

Rack Backplane

P1 Bus

	Component Side		
	Pin [†]	Mnemonic	Description
Power Supplies	1 3 5 7 9 NC 11	GND +5V +5V +12V -5V GND	Signal Ground +5 VDC +5 VDC +12 VDC -5 VDC Signal Ground
Bus Controls	13 15 17 19 21 23	BCLK BPRN/ BUSY/ MRDC/ IORC/ XACK/	Bus Clock Bus Priority In Bus Busy Memory Read Command I/O Read Command Transfer Acknowledge
Bus Controls and Addresses	25 27 29 31 33 NC	LOCK/ BHEN/ CBRQ/ CCLK/ INTA/	Lock Byte HI Enable Common Bus Request Common Clock Interrupt Acknowledge
Parallel Interrupts Requests	35 MOD 37 NC 39 41	INT6/ INT4/ INT2/ INT0/	CPU Communication Interrupt General Purpose Interrupt General Purpose Interrupt General Purpose Interrupt
Address	43 45 47 49 51 53 55 57	ADRE/ ADRC/ ADRA/ ADR8/ ADR6/ ADR4/ ADR2/ ADR0/	Address Bus
Data	59 61 63 65 67 69 71 73	DATE/ DATC/ DATA/ DAT8/ DAT6/ DAT4/ DAT2/ DAT0/	Data Bus
Power Supplies	75 77 NC 79 81 83 85	GND -12V +5V +5V GND	Signal Ground Reserved -12V +5 VDC +5 VDC Signal Ground

NC: No connection

MOD: Modified definition of Multibus specification

NU: No usage in system; driven per Multibus specification

Appendix C (Cont.)

Rack Backplane

P1 Bus (Cont.)

	Solder Side		
	Pin ¹	Mnemonic	Description
Power Supplies	2 4 6 8 10 NC 12	GND +5V +5V +12V -5V GND	Signal Ground +5 VDC +5 VDC +12 VDC -5 VDC Signal Ground
Bus Controls	14 16 18 20 22 24 MOD	INIT/ BPRO/ BREQ/ MWTC/ IOWC/ PRIV/	Initialize Bus Priority Out Bus Request Memory Write Command I/O Write Command Privilege
Bus Controls and Addresses	26 MOD 28 30 32 34	MMUMAP AD10/ AD11/ AD12/ AD13/	MMU Map Select Address Bus Address Bus Address Bus Address Bus
Parallel Interrupts Requests	36 MOD 38 NC 40 42	INT7/ INT5/ INT3/ INT1/	System WDOG Interrupt General Purpose Interrupt General Purpose Interrupt General Purpose Interrupt
Address	44 46 48 50 52 54 56 58	ADRF/ ADRD/ ADRB/ ADR9/ ADR7/ ADR5/ ADR3/ ADR1/	Address Bus
Data	60 62 64 66 68 70 72 74	DATF/ DATD/ DATB/ DAT9/ DAT7/ DAT5/ DAT3/ DAT1/	Data Bus
Power Supplies	76 78 NC 80 82 84 86	GND -12V +5V +5V GND	Signal Ground Reserved -12V +5 VDC +5 VDC Signal Ground

NC: No connection

MOD: Modified definition of Multibus specification

NU: No usage in system; driven per Multibus specification

Appendix C (Cont.)

Rail Backplane

P2 Bus

Component Side		
Pin	Mnemonic	Description
1	AGND	Analog Ground
3	5VB	+5V Battery
5	IDA0/	Address ID #0
7	DB	Dedicated High Speed Bus
9	IDA1/	Address ID #1
11	DB	Dedicated High Speed Bus
13	DB	Dedicated High Speed Bus
15	DB	Dedicated High Speed Bus
17	PFSN/	Power Fail Sense
19	PFIN/	Power Fail Interrupt
21	AGND	Analog Ground
23	A +15V	Analog +5 VDC
25	A -15V	Analog +5 VDC
27	DB DPR0/	Data Parity 0
29	DB APR0/	ADDR Parity 0
31	DB APR2/	ADDR Parity 2
33	DB	Dedicated High Speed Bus
35	KEY0/	Key Lock Position 0
37	KEY1/	Key Lock Position 1
39	WDOK/	Watchdog OK
41	MPOSO	Dedicated High Speed Bus
43	MPOS2/	Dedicated High Speed Bus
45	MPOS4/	Dedicated High Speed Bus
47	MPOS6/	Dedicated High Speed Bus
49	MPOS8/	Dedicated High Speed Bus
51	MPOSA/	Dedicated High Speed Bus
53	MPOSC/	Dedicated High Speed Bus
55	MPOSE/	Dedicated High Speed Bus
57	MDFLT/	Dedicated High Speed Bus
59	MVAGND	Dedicated High Speed Bus

Appendix C (Cont.)

Rail Backplane

P2 Bus (Cont.)

Solder Side		
Pin	Mnemonic	Description
2	AGND	Analog Ground
4	5VB	+ 5V Battery
6	DBR	Dedicated High Speed Bus
8	DBR	Dedicated High Speed Bus
10	IDA2/	Address ID #2
12	DB	Dedicated High Speed Bus
14	IDA3/	Address ID #3
16	DBR	Dedicated High Speed Bus
18	DBR	Dedicated High Speed Bus
20	MPRO/	Memory Protect
22	AGND	Analog Ground
24	A + 15V	Analog + 15 VDC
26	A -15V	Analog -15 VDC
28	DPR1/	Data Parity 1
30	APR1/	ADDR Parity 1
32	PREN/	Parity Enable
34	DIAG/	Diagnostic Loop
36	BD RST/	Board Reset
38	DB	Dedicated High Speed Bus
40	DB	Dedicated High Speed Bus
42	MPOS1	Dedicated High Speed Bus
44	MPOS3/	Dedicated High Speed Bus
46	MPOS5/	Dedicated High Speed Bus
48	MPOS7/	Dedicated High Speed Bus
50	MPOS9/	Dedicated High Speed Bus
52	MPOSB/	Dedicated High Speed Bus
54	MPOSD/	Dedicated High Speed Bus
56	MPOSF/	Dedicated High Speed Bus
58	MVAREF	Dedicated High Speed Bus
60	MVAGND	Dedicated High Speed Bus