

CRAY X-MP EA/116se Chassis Map

IOP-0
Locations J10-J65

E		F		G		H		I		J	
72	71-54	3YS	71-54	3YS	71-54	3YS	71-54	3YS			
71											
70	53-36	Bank	53-36	Bank	53-36	Bank	53-36	Bank			
69											
68	35-18	8 ₁₀ /10 ₈	35-18	12 ₁₀ /14 ₈	35-18	10 ₁₀ /12 ₈	35-18	14 ₁₀ /16 ₈			
67											
66	17-00	3YS	17-00	3YS	17-00	3YS	17-00	3YS			
65											
64	71-54	3YS	71-54	3YS	71-54	3YS	71-54	3YS			
63											
62	53-36	Bank	53-36	Bank	53-36	Bank	53-36	Bank			
61											
60	35-18	0 ₁₀ /00 ₈	35-18	4 ₁₀ /14 ₈	35-18	2 ₁₀ /02 ₈	35-18	6 ₁₀ /06 ₈			
59											
58	17-00	3YS	17-00	3YS	17-00	3YS	17-00	3YS			
57											
56	35-24	3YD	71-60	3YD	35-24	3YD	71-60	3YD			
55											
54	23-12	Read Data SEC-0	59-48	Read Data SEC-0	23-12	Read Data SEC-2	59-48	Read Data SEC-2			
53											
52	11-00	3YD	47-36	3YD	11-00	3YD	47-36	3YD			
51											
50	35-18	Write Data SEC-0	71-54	Write Data SEC-0	35-18	Write Data SEC-2	71-54	Write Data SEC-2			
49											
48	17-00	3YC	53-36	3YC	17-00	3YC	53-36	3YC			
47											
46	SEC-0 Address	3YB	Not Used	3YB	Not Used	3YB	SEC-2 Address	3YB			
45											
44	Not Used		71-54		71-54		71-54				
43	71-54	3YS	53-36	Bank	53-36	Bank	71-54	3YS			
42											
41	53-36	Bank	35-18	13 ₁₀ /15 ₈	35-18	11 ₁₀ /13 ₈	53-36	Bank			
40											
39	35-18	9 ₁₀ /11 ₈	35-18	17-00	35-18	15 ₁₀ /17 ₈	35-18	17-00			
38											
37	17-00	3YS	71-54	3YS	17-00	3YS	71-54	3YS			
36											
35	71-54	3YS	53-36	Bank	53-36	Bank	71-54	3YS			
34											
33	53-36	Bank	35-18	5 ₁₀ /05 ₈	35-18	3 ₁₀ /03 ₈	53-36	Bank			
32											
31	35-18	1 ₁₀ /01 ₈	35-18	17-00	35-18	7 ₁₀ /07 ₈	35-18	17-00			
30											
29	17-00	3YS	Address SEC-1	3YB	71-54	Address SEC-3	17-00	3YS			
28											
27	35-24	3YD	71-60	3YD	35-24	3YD	71-60	3YD			
26											
25	23-12	Read Data SEC-1	59-48	Read Data SEC-1	23-12	Read Data SEC-3	59-48	Read Data SEC-3			
24											
23	11-00	3YD	47-36	3YD	11-00	3YD	47-36	3YD			
22											
21	35-18	Write Data SEC-1	71-54	Write Data SEC-1	35-18	Write Data SEC-3	71-54	Write Data SEC-3			
20											
19	17-00	3YC	53-36	3YC	17-00	3YC	53-36	3YC			
18											
17	SEC-0 CPU 0	3ZE	SEC-1 CPU 1	3ZE	SEC-3 CPU 1	3ZE	SEC-2 CPU 0	3ZE			
16	SEC-0 CPU 0	3ZE	SEC-1 CPU 1	3ZE	SEC-3 CPU 1	3ZE	SEC-2 CPU 0	3ZE			
15	SEC-0 CPU 0	3ZE	SEC-1 CPU 1	3ZE	SEC-3 CPU 1	3ZE	SEC-2 CPU 0	3ZE			
14	32-63 Correction	3ZE	SEC-1 CPU 0	3ZE	SEC-3 CPU 0	3ZE	SEC-2 CPU 1	3ZE			
13	SEC-0 CPU 1	3ZE	SEC-1 CPU 0	3ZE	SEC-3 CPU 0	3ZE	SEC-2 CPU 1	3ZE			
12	0-31	3ZE	SEC-1 CPU 0	3ZE	SEC-3 CPU 0	3ZE	SEC-2 CPU 1	3ZE			
11	SEC-0 CPU 1	3ZE	SEC-1 CPU 0	3ZE	SEC-3 CPU 0	3ZE	SEC-2 CPU 1	3ZE			
10	32-63	3ZE	SEC-1 CPU 0	3ZE	SEC-3 CPU 0	3ZE	SEC-2 CPU 1	3ZE			
09											
08	Memory Address Delay Section 0	3QZ	Memory Address Delay Section 1	3QZ	Memory Address Delay Section 3	3QZ	Memory Address Delay Section 2	3QZ			
07	Master Clock	3TO-4/3TO-5	Instruction Buffer	3HR	Instruction Buffer	3HR	Error Log	3HQ			
06											
05	Clock Fanout	3TC-1	Instruction Buffer	3HR	Instruction Buffer	3HR	Data Error Correction	3QE			
04											
03	Not Used										
02	Lower I/O Address Path	3SA	Section 0 Four Part Section Conflict	3AQ-1	0,4,8,12,16,20,24,28 Shared/Semi Common Control	3JT	08-15,24-31 Input Data Buffer	3DJ			
01											
00	00-15 Read Time Clock and Programable Clock	3GC	Section 2 Four Part Section Conflict	3AQ-1	2,6,10,14,18,22,26,30 Shared/Semi Common Control	3JT	08-15 Output Channel 17 Data Buffer	3DD-3			
00	16-31 Read Time Clock and Programable Clock	3GC	Section 3	3AQ-1	3,7,11,15,19,23,27,31	3JT	00-07 Channel 15	3DD-3			
03	48-63 Read Time Clock and Programable Clock	3GC									
04											
05	Not Used										
06											
07	Not Used										
08											
09	Lower I/O Scalar Reference	3SB	Lower Block Address	3AO-3	k0,k1,0,11,12 CIP Fanout	3JU	Channel Address Lower & Reference Control	3DB			
10											
11	Read/W rite Data	3SB	I/O Reference	3BC	1,1,2,h2 CIP Fanout	3JU	LOSP Channel Input Control	3DH			
12											
13	Lower I/O Data	3SB	00,08,16,24	3BR	Vector Control	3JD-3	HISP Channel Address and Control	3DW-3			
14											
15	Not Used										
16											
17	Upper Address Multiply	3BV	01,09,17,25	3BR	Address Control	3JG	00-07 Channel 11 Output Data Buffer	3DD-3			
18											
19	Not Used										
20											
21	16-23 Middle Address Multiply	3BU	02,10,18,26	3BR	Scalar Issue	3JC-1	08-15 Channel 13	3DD-3			
22											
23	Lower Address Multiply	3BT	03,11,19,27	3BR	00-15 Register	3AE-1	00-07,16,23 Input Data Buffer	3DJ			
24											
25	0-15 Lower Address Multiply	3BT	04,12,20,28	3BR	16-31 Address	3AE-1	08-15,24-31 Data Buffer	3DJ			
26											
27	Multiply Final Level	3MY	05,13,21,29	3BR	Selection	3AE-1	Data Error Correction	3DE			
28											
29	Multiply Final Level	3MX	06,14,22,30	3BR	I/O Fanin	3DU	Error Log	3HQ			
30											
31	Multiply Final Level	3MZ	07,15,23,31	3BS	Address Adder	3VA	Exchange Parameter	3HL			
32											
33	Multiply 1st and 2nd level	3MW	08,16,24,32	3BS	07,15,23,31,39,47,55,63	3VA	Performance Log	3HG			
34											
35	Multiply 1st and 2nd level	3MV	09,17,25,33	3CS	05,13,21,29,37,45,63,61	3VA	Not Used				
36											
37	Multiply 1st and 2nd level	3MU	10,18,26,34	3CS	03,11,19,27,35,43,51,59	3VA	Not Used				
38											
39	Multiply 1st and 2nd level	3MY	11,27,43,59	3CS	01,09,17,25,33,41,49,57	3VA	Odd Vector Shift	3VE			
40											
41	Reciprocal R2 Final	3RY	09,25,41,57	3CS	06,14,22,30,38,54,62	3VA	16-31,48-63 Vector Logical	3VF			
42											
43	Reciprocal R2 Formation	3RX	07,23,39,55	3CS	04,12,20,28,36,52,60	3VA	00-15,32-47	3VF			
44											
45	R1 ² and Pop Count Final	3RW	05,21,37,53	3CS	02,10,18,26,34,42,50,58	3VA	4-7 Vector Register Control	3VD			
46											
47	Reciprocal R1 Formation	3RV	03,19,35,51	3CS	00,08,16,24,32,40,48,56	3VA	0-3	3VD			
48											
49	Floating Add Final Level	3FE	01,17,33,49	3CS	0-1-2-3 Vector Operand/Length	3VC	0-3	3VD			
50											
51	Floating Add 2nd Level	3FD	02,18,34,50	3GB	Odd Scalar Shift	3VB	7	3VR			
52											
53	Floating Add k Coefficient and Align.	3FC	03,19,35,51	3GB	Even Shift	3VB	6	3VR			
54											
55	Floating Add j Coefficient and Align.	3FB	14,30,46,62	3CS	05,16,26,36,46,56	3VB	5	3VR			
56											
57	Floating Add Exponent and Control	3FA	12,28,44,60	3CS	07,17,27,37,47,57	3VB	4	3VR			
58											