

OptIF VME Address Map (add Base Address)

VME Offset	Function
0F8	
0F0	
0E8	
0E0	
0D8	
0D0	
0C8	
0C0	
0B8	
0B0	
0A8	
0A0	
098	
090	RXDAC2
088	RXDAC1
080	RXDAC0
078	
070	
068	
060	
058	
050	
048	
040	
038	
030	
028	
020	
018	
010	
008	OptIF
000	Cont REG's

VME Offset	Function
1F8	
1F0	
1E8	
1E0	
1D8	
1D0	
1C8	
1C0	
1B8	
1B0	
1A8	
1A0	
198	
190	
188	TXDAC1
180	TXDAC0
178	BPM1
170	
168	
160	
158	
150	
148	
140	
138	BPM0
130	
128	
120	
118	
110	
108	
100	

Accessing Addresses 0200 to FFFF is Not Defined
 (Address Bits A[15:9] are ignored)

Detailed Addressing

VME Offset	Function										
	Hardware Block	Bits Used	Acts On	Description							
1F8 ^ ^ 190	^ ^ ^ ^	^ ^	^ ^	^ Unused ^ ^							
18E	TX_DAC1										
18C											
18A		bit[7:0]	Laser 5	Sets Current for Laser 5							
188		bit[7:0]	Laser 4	Sets Current for Laser 4							
186	TX_DAC0	bit[7:0]	Laser 3	Sets Current for Laser 3							
184		bit[7:0]	Laser 2	Sets Current for Laser 2							
182		bit[7:0]	Laser 1	Sets Current for Laser 1							
180		bit[7:0]	Laser 0	Sets Current for Laser 0							
17E ^ 142 140	BPM 1	See Separate Table for BPM Addressing									
13E ^ 102 100					BPM 0	See Separate Table for BPM Addressing					
^ ^									Unused		
^ ^											
096	RX_DAC2	bit[7:0]	Threshold_11	Sets Threshold for Stream 11							
094		bit[7:0]	Threshold_10	Sets Threshold for Stream 10							
092		bit[7:0]	Threshold_9	Sets Threshold for Stream 9							
090		bit[7:0]	Threshold_8	Sets Threshold for Stream 8							
08E	RX_DAC1	bit[7:0]	Threshold_7	Sets Threshold for Stream 7							
08C		bit[7:0]	Threshold_6	Sets Threshold for Stream 6							
08A		bit[7:0]	Threshold_5	Sets Threshold for Stream 5							
088		bit[7:0]	Threshold_4	Sets Threshold for Stream 4							
086	RX_DAC0	bit[7:0]	Threshold_3	Sets Threshold for Stream 3							
084		bit[7:0]	Threshold_2	Sets Threshold for Stream 2							
082		bit[7:0]	Threshold_1	Sets Threshold for Stream 1							
080		bit[7:0]	Threshold_0	Sets Threshold for Stream 0							
^ ^	^ ^	Unused		^ ^							
00E	OptIF Control Reg's										
00C		b0	RXInv_8to11	Inverts RX Streams 8-11							
00A		b0	RXInv_4to7	Inverts RX Streams 4-7							
008		b0	RXInv_0to3	Inverts RX Streams 0-3							
006		b0	BPM1Reset	Resets BPM 1							
004		b0	BPM0Reset	Resets BPM 0							
002		b0	Comm_Inv	Inverts Command Streams							
000		b0	Clock_Inv	Inverts Clock							

BPM Addressing

VME Offset	BPM #	Laser #	Function
13E	BPM0		
13C			
13A			
138			
136			
134			
132			
130			
12E			
12C			
12A			
128			
126			
124			
122			
120			See BPM4 Manual
11E			
11C			
11A			
118			
116			
114			
112			
110			
10E			
10C			
10A			
108			
106			
104			
102			
100			

Note: only streams 0-2 of each BPM4B are used

VME Offset	BPM #	Laser #	Function
17E	BPM1		
17C			
17A			
178			
176			
174			
172			
170			
16E			
16C			
16A			
168			
166			
164			
162			
160			See BPM4 Manual
15E			
15C			
15A			
158			
156			
154			
152			
150			
14E			
14C			
14A			
148			
146			
144			
142			
140			

Note: only streams 0-2 of each BPM4B are used