



RXDelays

BOC\_DATA\_DELAY 0x800  
BOC\_BASE\_ADDRESS 0x408000

Register	Channel	ChannelOffset	complete Address
BOC-RX-Delay	0	0x 0	0x 408800
	1	0x 4	0x 408804
	2	0x 8	0x 408808
	3	0x c	0x 40880c
	4	0x 10	0x 408810
	5	0x 14	0x 408814
	6	0x 18	0x 408818
	7	0x 1c	0x 40881c
	8	0x 20	0x 408820
	9	0x 24	0x 408824
	10	0x 28	0x 408828
11	0x 2c	0x 40882c	
	12	0x 30	0x 408830
	13	0x 34	0x 408834
	14	0x 38	0x 408838
	15	0x 3c	0x 40883c
	16	0x 40	0x 408840
	17	0x 44	0x 408844
	18	0x 48	0x 408848
	19	0x 4c	0x 40884c
	20	0x 50	0x 408850
	21	0x 54	0x 408854
	22	0x 58	0x 408858
	23	0x 5c	0x 40885c
	24	0x 60	0x 408860
	25	0x 64	0x 408864
	26	0x 68	0x 408868
	27	0x 6c	0x 40886c
	28	0x 70	0x 408870
	29	0x 74	0x 408874
	30	0x 78	0x 408878
	31	0x 7c	0x 40887c
	32	0x 80	0x 408880
	33	0x 84	0x 408884
	34	0x 88	0x 408888
	35	0x 8c	0x 40888c
	36	0x 90	0x 408890
	37	0x 94	0x 408894
	38	0x 98	0x 408898
	39	0x 9c	0x 40889c
	40	0x a0	0x 4088a0
	41	0x a4	0x 4088a4
	42	0x a8	0x 4088a8
	43	0x ac	0x 4088ac
	44	0x b0	0x 4088b0
	45	0x b4	0x 4088b4
	46	0x b8	0x 4088b8
	47	0x bc	0x 4088bc

RXDelays

	48	0x c0	0x 4088c0
	49	0x c4	0x 4088c4
	50	0x c8	0x 4088c8
	51	0x cc	0x 4088cc
	52	0x d0	0x 4088d0
	53	0x d4	0x 4088d4
	54	0x d8	0x 4088d8
	55	0x dc	0x 4088dc
	56	0x e0	0x 4088e0
	57	0x e4	0x 4088e4
	58	0x e8	0x 4088e8
	59	0x ec	0x 4088ec
	60	0x f0	0x 4088f0
	61	0x f4	0x 4088f4
	62	0x f8	0x 4088f8
	63	0x fc	0x 4088fc
	64	0x 100	0x 408900
	65	0x 104	0x 408904
	66	0x 108	0x 408908
	67	0x 10c	0x 40890c
	68	0x 110	0x 408910
	69	0x 114	0x 408914
	70	0x 118	0x 408918
	71	0x 11c	0x 40891c
	72	0x 120	0x 408920
	73	0x 124	0x 408924
	74	0x 128	0x 408928
	75	0x 12c	0x 40892c
	76	0x 130	0x 408930
	77	0x 134	0x 408934
	78	0x 138	0x 408938
	79	0x 13c	0x 40893c
	80	0x 140	0x 408940
	81	0x 144	0x 408944
	82	0x 148	0x 408948
	83	0x 14c	0x 40894c
	84	0x 150	0x 408950
	85	0x 154	0x 408954
	86	0x 158	0x 408958
	87	0x 15c	0x 40895c
	88	0x 160	0x 408960
	89	0x 164	0x 408964
	90	0x 168	0x 408968
	91	0x 16c	0x 40896c
	92	0x 170	0x 408970
	93	0x 174	0x 408974
	94	0x 178	0x 408978
	95	0x 17c	0x 40897c

RXThreshold

BOC\_THRESHOLD\_DAC 0xC00  
BOC\_BASE\_ADDRESS 0x408000

Register	Channel	ChannelOffset	complete Address
BOC-RX-Threshold	0	0x 0	0x 408c00
	1	0x 4	0x 408c04
	2	0x 8	0x 408c08
	3	0x c	0x 408c0c
	4	0x 10	0x 408c10
	5	0x 14	0x 408c14
	6	0x 18	0x 408c18
	7	0x 1c	0x 408c1c
	8	0x 20	0x 408c20
	9	0x 24	0x 408c24
		10	0x 28
	11	0x 2c	0x 408c2c
	12	0x 30	0x 408c30
	13	0x 34	0x 408c34
	14	0x 38	0x 408c38
	15	0x 3c	0x 408c3c
	16	0x 40	0x 408c40
	17	0x 44	0x 408c44
	18	0x 48	0x 408c48
	19	0x 4c	0x 408c4c
	20	0x 50	0x 408c50
	21	0x 54	0x 408c54
	22	0x 58	0x 408c58
	23	0x 5c	0x 408c5c
	24	0x 60	0x 408c60
	25	0x 64	0x 408c64
	26	0x 68	0x 408c68
	27	0x 6c	0x 408c6c
	28	0x 70	0x 408c70
	29	0x 74	0x 408c74
	30	0x 78	0x 408c78
	31	0x 7c	0x 408c7c
	32	0x 80	0x 408c80
	33	0x 84	0x 408c84
	34	0x 88	0x 408c88
	35	0x 8c	0x 408c8c
	36	0x 90	0x 408c90
	37	0x 94	0x 408c94
	38	0x 98	0x 408c98
	39	0x 9c	0x 408c9c
	40	0x a0	0x 408ca0
	41	0x a4	0x 408ca4
	42	0x a8	0x 408ca8
	43	0x ac	0x 408cac
	44	0x b0	0x 408cb0
	45	0x b4	0x 408cb4
	46	0x b8	0x 408cb8
	47	0x bc	0x 408cbc

RXThreshold

	48	0x c0	0x 408cc0
	49	0x c4	0x 408cc4
	50	0x c8	0x 408cc8
	51	0x cc	0x 408ccc
	52	0x d0	0x 408cd0
	53	0x d4	0x 408cd4
	54	0x d8	0x 408cd8
	55	0x dc	0x 408cdc
	56	0x e0	0x 408ce0
	57	0x e4	0x 408ce4
	58	0x e8	0x 408ce8
	59	0x ec	0x 408cec
	60	0x f0	0x 408cf0
	61	0x f4	0x 408cf4
	62	0x f8	0x 408cf8
	63	0x fc	0x 408cfc
	64	0x 100	0x 408d00
	65	0x 104	0x 408d04
	66	0x 108	0x 408d08
	67	0x 10c	0x 408d0c
	68	0x 110	0x 408d10
	69	0x 114	0x 408d14
	70	0x 118	0x 408d18
	71	0x 11c	0x 408d1c
	72	0x 120	0x 408d20
	73	0x 124	0x 408d24
	74	0x 128	0x 408d28
	75	0x 12c	0x 408d2c
	76	0x 130	0x 408d30
	77	0x 134	0x 408d34
	78	0x 138	0x 408d38
	79	0x 13c	0x 408d3c
	80	0x 140	0x 408d40
	81	0x 144	0x 408d44
	82	0x 148	0x 408d48
	83	0x 14c	0x 408d4c
	84	0x 150	0x 408d50
	85	0x 154	0x 408d54
	86	0x 158	0x 408d58
	87	0x 15c	0x 408d5c
	88	0x 160	0x 408d60
	89	0x 164	0x 408d64
	90	0x 168	0x 408d68
	91	0x 16c	0x 408d6c
	92	0x 170	0x 408d70
	93	0x 174	0x 408d74
	94	0x 178	0x 408d78
	95	0x 17C	0x 408d7c

BOC\_LASER\_DAC      0x600  
 BOC\_BASE\_ADDRESS    0x408000

Register	Channel	ChannelOffset	complete Address
BOC-LaserCurrent	0	0x 0	0x 408600
	1	0x 4	0x 408604
	2	0x 8	0x 408608
	3	0x c	0x 40860c
	4	0x 10	0x 408610
	5	0x 14	0x 408614
	6	0x 18	0x 408618
	7	0x 1c	0x 40861c
	8	0x 20	0x 408620
	9	0x 24	0x 408624
	10	0x 28	0x 408628
11	0x 2c	0x 40862c	
	12	0x 30	0x 408630
	13	0x 34	0x 408634
	14	0x 38	0x 408638
	15	0x 3c	0x 40863c
	16	0x 40	0x 408640
	17	0x 44	0x 408644
	18	0x 48	0x 408648
	19	0x 4c	0x 40864c
	20	0x 50	0x 408650
	21	0x 54	0x 408654
	22	0x 58	0x 408658
23	0x 5c	0x 40865c	
	24	0x 60	0x 408660
	25	0x 64	0x 408664
	26	0x 68	0x 408668
	27	0x 6c	0x 40866c
	28	0x 70	0x 408670
	29	0x 74	0x 408674
	30	0x 78	0x 408678
	31	0x 7c	0x 40867c
	32	0x 80	0x 408680
	33	0x 84	0x 408684
	34	0x 88	0x 408688
35	0x 8c	0x 40868c	
	36	0x 90	0x 408690
	37	0x 94	0x 408694
	38	0x 98	0x 408698
	39	0x 9c	0x 40869c
	40	0x a0	0x 4086a0
	41	0x a4	0x 4086a4
	42	0x a8	0x 4086a8
	43	0x ac	0x 4086ac
	44	0x b0	0x 4086b0
	45	0x b4	0x 4086b4
	46	0x b8	0x 4086b8
47	0x bc	0x 4086bc	

BPMRegister

BOC\_BPM\_BASE 0x000  
 BOC\_BASE\_ADDRESS 0x408000  $BOC\_BPM\_BASE + (bpm \ll 8) + (stream \ll 4) + offset$

BPM	Channel	offset stream	0x0 BOC_BPM_INHIBIT	0x4 BOC_BPM_MARK_SPACE	0x8 BOC_BPM_COARSE	0xC BOC_BPM_FINE
0	0	0	0x 408000	0x 408004	0x 408008	0x 40800c
	1	1	0x 408010	0x 408014	0x 408018	0x 40801c
	2	2	0x 408020	0x 408024	0x 408028	0x 40802c
	3	3	0x 408030	0x 408034	0x 408038	0x 40803c
	4	4	0x 408040	0x 408044	0x 408048	0x 40804c
	5	5	0x 408050	0x 408054	0x 408058	0x 40805c
	6	6	0x 408060	0x 408064	0x 408068	0x 40806c
	7	7	0x 408070	0x 408074	0x 408078	0x 40807c
	8	8	0x 408080	0x 408084	0x 408088	0x 40808c
	9	9	0x 408090	0x 408094	0x 408098	0x 40809c
	10	10	0x 4080a0	0x 4080a4	0x 4080a8	0x 4080ac
11	11	0x 4080b0	0x 4080b4	0x 4080b8	0x 4080bc	
1	12	0	0x 408100	0x 408104	0x 408108	0x 40810c
	13	1	0x 408110	0x 408114	0x 408118	0x 40811c
	14	2	0x 408120	0x 408124	0x 408128	0x 40812c
	15	3	0x 408130	0x 408134	0x 408138	0x 40813c
	16	4	0x 408140	0x 408144	0x 408148	0x 40814c
	17	5	0x 408150	0x 408154	0x 408158	0x 40815c
	18	6	0x 408160	0x 408164	0x 408168	0x 40816c
	19	7	0x 408170	0x 408174	0x 408178	0x 40817c
	20	8	0x 408180	0x 408184	0x 408188	0x 40818c
	21	9	0x 408190	0x 408194	0x 408198	0x 40819c
	22	10	0x 4081a0	0x 4081a4	0x 4081a8	0x 4081ac
23	11	0x 4081b0	0x 4081b4	0x 4081b8	0x 4081bc	
2	24	0	0x 408200	0x 408204	0x 408208	0x 40820c
	25	1	0x 408210	0x 408214	0x 408218	0x 40821c
	26	2	0x 408220	0x 408224	0x 408228	0x 40822c
	27	3	0x 408230	0x 408234	0x 408238	0x 40823c
	28	4	0x 408240	0x 408244	0x 408248	0x 40824c
	29	5	0x 408250	0x 408254	0x 408258	0x 40825c
	30	6	0x 408260	0x 408264	0x 408268	0x 40826c
	31	7	0x 408270	0x 408274	0x 408278	0x 40827c
	32	8	0x 408280	0x 408284	0x 408288	0x 40828c
	33	9	0x 408290	0x 408294	0x 408298	0x 40829c
	34	10	0x 4082a0	0x 4082a4	0x 4082a8	0x 4082ac
35	11	0x 4082b0	0x 4082b4	0x 4082b8	0x 4082bc	
3	36	0	0x 408300	0x 408304	0x 408308	0x 40830c
	37	1	0x 408310	0x 408314	0x 408318	0x 40831c
	38	2	0x 408320	0x 408324	0x 408328	0x 40832c
	39	3	0x 408330	0x 408334	0x 408338	0x 40833c
	40	4	0x 408340	0x 408344	0x 408348	0x 40834c
	41	5	0x 408350	0x 408354	0x 408358	0x 40835c
	42	6	0x 408360	0x 408364	0x 408368	0x 40836c
	43	7	0x 408370	0x 408374	0x 408378	0x 40837c
	44	8	0x 408380	0x 408384	0x 408388	0x 40838c
	45	9	0x 408390	0x 408394	0x 408398	0x 40839c
	46	10	0x 4083a0	0x 4083a4	0x 4083a8	0x 4083ac
47	11	0x 4083b0	0x 4083b4	0x 4083b8	0x 4083bc	