

APD MAP

This map is viewed from the back!

LEFT TOP BOARD

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Y																							
5	514	439	441	344	345	368	362	400	407	433	440	222	223	421	426	299	290	10	1	119	155	374	378
4	12	436	435	343	347	370	372	408	488	443	447	202	221	422	431	482	490	41	4	61	80	478	445
3	512	437	377	337	346	363	367	295	399	383	384	201	199	432	429	293	296	44	2	113	70	446	477
2	43	379	381	340	348	371	364	403	397	380	375	227	217	423	427	289	300	37	9	14	154	376	474
1	39	434	442	342	339	369	361	292	486	450	475	200	220	428	425	294	291	51	112	147	62	473	453
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

LEFT BOTTOM BOARD

-1	7	163	160	356	350	507	505	396	394	266	275	465	401	53	54	250	242	15	131	74	83	463	457
-2	3	158	166	357	355	506	511	391	387	268	276	468	464	49	57	245	247	75	66	145	35	456	470
-3	45	162	167	360	349	509	515	385	392	274	269	467	480	56	58	249	251	81	122	130	28	451	449
-4	46	164	161	353	358	516	510	395	388	271	270	462	466	52	59	243	246	21	120	26	77	479	476
-5	8	168	159	359	354	508	513	386	390	273	272	459	469	55	60	241	244	149	65	123	127	448	455
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

RIGHT TOP BOARD

5	208	141	142	89	287	277	67	68	91	151	264	262	87	137	182	172	178	180	98	176	225	192	169
4	207	85	143	88	286	280	109	156	124	132	258	255	27	92	184	185	171	188	106	183	197	204	203
3	228	136	157	99	288	283	118	22	140	36	253	256	138	32	189	181	419	420	409	351	219	194	196
2	224	102	170	108	281	278	19	50	33	25	257	260	139	29	186	187	352	414	418	410	416	411	413
1	190	105	179	173	285	282	71	24	129	134	261	259	90										415
	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

RIGHT BOTTOM BOARD

-1	366	461	393	472	94	86	485	489	79	69	493	502	332										318
-2	444	263	267	458	95	30	487	404	111	76	494	496	336	324	84	148	146	13	152	96	323	322	319
-3	438	329	335	325	153	128	492	402	78	23	495	504	320	317	117	115	34	31	63	72	211	210	206
-4	232	330	333	328	73	126	460	405	64	110	503	500	315	314	150	16	307	313	302	309	216	214	205
-5	237	327	331	326	121	82	483	484	17	114	499	498	321	316	20	116	310	305	312	308	212	213	209
	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

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PREAMPLIFIER MAP

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LEFT TOP BOARD

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Y																							
5	N348	N034	N096	N492	N087	N070	N023	N088	N195	N140	N457	N017	N039	N488	N113	N146	N198	N169	N130	N473	N161	N079	N022
4	N280	N122	N208	N059	N230	N302	N106	N114	N210	N446	N386	N255	N355	N166	N334	N357	N356	N412	N509	N359	N311	N156	N416
3	N261	N369	N265	N246	N278	N452	N173	N285	N007	N231	N440	N305	N442	N447	N435	N193	N281	N333	N245	N235	N259	N319	N181
2	N297	N420	N339	N074	N177	N495	N006	N375	N270	N212	N470	N134	N352	N269	N373	N398	N425	N436	N236	N054	N078	N443	N458
1	N207	N081	N061	N299	N247	N267	N221	N432	N347	N289	N331	N016	N360	N388	N215	N408	N133	N115	N244	N112	N224	N090	N310
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

LEFT BOTTOM BOARD

-1	N400	N052	N296	N441	N427	N304	N250	N190	N282	N501	N138	N385	N360	N180	N422	N178	N121	N472	N175	N085	N409	N211	N107
-2	N274	N069	N337	N153	N168	N294	N043	N418	N507	N437	N131	N366	N206	N368	N154	N344	N194	N429	N057	N256	N002	N037	N308
-3	N049	N124	N262	N003	N395	N159	N111	N008	N323	N004	N377	N067	N405	N232	N454	N158	N068	N157	N491	N264	N021	N200	N110
-4	N056	N349	N490	N028	N103	N186	N328	N414	N050	N036	N413	N504	N098	N104	N462	N099	N401	N450	N361	N100	N271	N229	N367
-5	N182	N291	N083	N411	N020	N027	N165	N277	N275	N038	N453	N075	N053	N332	N424	N487	N058	N051	N312	N505	N091	N094	N174
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

RIGHT TOP BOARD

5	N266	N086	N047	N145	N046	N346	N222	N273	N238	N397	N152	N040	N024	N241	N461	N343	N128	N018	N162	N171	N451	N216	N142
4	N287	N403	N197	N353	N071	N170	N384	N449	N358	N426	N189	N063	N035	N325	N123	N097	N484	N272	N486	N127	N320	N150	N502
3	N199	N119	N125	N233	N456	N116	N423	N188	N172	N390	N383	N444	N191	N503	N060	N286	N445	N263	N303	N033	N351	N300	N001
2	N419	N196	N376	N219	N338	N404	N350	N336	N378	N143	N460ble	N69rou	N234	N204	N315	N496	N318	N089	N363	N117	N155	N176	N434
1	N102	N080	N248	N307	N326	N379	N389	N257	N084	N324	N290	N284	N381										N480
	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

RIGHT BOTTOM BOARD

-1	N288	N345	N109	N260	N396	N279	N218	N380	N254	N469ble	N394	N228	N327										N160
-2	N041	N341	N406	N374	N438	N306	N276	N316	N240	N417	N322	N065	N249	N466rou	N459	N031	N136	N415	N421	N455	N201	N387	N066
-3	N500	N330	N293	N243	N329	N252	N183	N448	N226	N105	N393	N362	N164	N129	N439	N026	N126	N095	N184	N407	N223	N298	N005
-4	N382	N237	N030	N077	N029	N283	N485	N428	N258	N062	N214	N163	N494	N321	N179	N239	N209	N410	N354	N167	N225	N048	N372
-5	N044	N220	N013	N120	N042	N399	N082	N118	N141	N108	N483	N251	N295	N335	N370	N364	N301	N431	N342	N292	N032	N268	N015
	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

This map is viewed from the back!

* B and R are for Blue or Red labels

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HV MAP

This map is viewed from the back!

LEFT TOP BOARD (115 input connectors from J1 to J115, 12 HV nets from HV1 to HV12)
11 groups of 10, 1 group of 5. same grouping of old project

Jx is the x smd 10 pin connector

HVx is the x High Voltage net

5	J1 HV1	J6 HV2	J11 HV2	J16 HV3	J21 HV3	J26 HV4	J31 HV4	J36 HV5	J41 HV5	J46 HV6	J51 HV6	J56 HV7	J61 HV7	J66 HV8	J71 HV8	J76 HV9	J81 HV9	J86 HV10	J91 HV10	J96 HV11	J101HV11	J106HV12	J111HV12
4	J2 HV1	J7 HV2	J12 HV2	J17 HV3	J22 HV3	J27 HV4	J32 HV4	J37 HV5	J42 HV5	J47 HV6	J52 HV6	J57 HV7	J62 HV7	J67 HV8	J72 HV8	J77 HV9	J82 HV9	J87 HV10	J92 HV10	J97 HV11	J102HV11	J107HV12	J112HV12
3	J3 HV1	J8 HV2	J13 HV2	J18 HV3	J23 HV3	J28 HV4	J33 HV4	J38 HV5	J43 HV5	J48 HV6	J53 HV6	J58 HV7	J63 HV7	J68 HV8	J73 HV8	J78 HV9	J83 HV9	J88 HV10	J93 HV10	J98 HV11	J103HV11	J108HV12	J113HV12
2	J4 HV1	J9 HV2	J14 HV2	J19 HV3	J24 HV3	J29 HV4	J34 HV4	J39 HV5	J44 HV5	J49 HV6	J54 HV6	J59 HV7	J64 HV7	J69 HV8	J74 HV8	J79 HV9	J84 HV9	J89 HV10	J94 HV10	J99 HV11	J104HV11	J109HV12	J114HV12
1	J5 HV1	J10 HV2	J15 HV2	J20 HV3	J25 HV3	J30 HV4	J35 HV4	J40 HV5	J45 HV5	J50 HV6	J55 HV6	J60 HV7	J65 HV7	J70 HV8	J75 HV8	J80 HV9	J85 HV9	J90 HV10	J95 HV10	J100HV11	J105HV11	J110HV12	J115HV12
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

LEFT BOTTOM BOARD (115 input connectors from J116 to J230, 12 HV nets from HV13 to HV24)
11 groups of 10, 1 group of 5

-1	J120HV13	J125HV14	J130HV14	J135HV15	J140HV15	J145HV16	J150HV16	J155HV17	J160HV17	J165HV18	J170HV18	J175HV19	J180HV19	J185HV20	J190HV20	J195HV21	J200HV21	J205HV22	J210HV22	J215HV23	J220HV23	J225HV24	J230HV24
-2	J119HV13	J124HV14	J129HV14	J134HV15	J139HV15	J144HV16	J149HV16	J154HV17	J159HV17	J164HV18	J169HV18	J174HV19	J179HV19	J184HV20	J189HV20	J194HV21	J199HV21	J204HV22	J209HV22	J214HV23	J219HV23	J224HV24	J229HV24
-3	J118HV13	J123HV14	J128HV14	J133HV15	J138HV15	J143HV16	J148HV16	J153HV17	J158HV17	J163HV18	J168HV18	J173HV19	J178HV19	J183HV20	J188HV20	J193HV21	J198HV21	J203HV22	J208HV22	J213HV23	J218HV23	J223HV24	J228HV24
-4	J117HV13	J122HV14	J127HV14	J132HV15	J137HV15	J142HV16	J147HV16	J152HV17	J157HV17	J162HV18	J167HV18	J172HV19	J177HV19	J182HV20	J187HV20	J192HV21	J197HV21	J202HV22	J207HV22	J212HV23	J217HV23	J222HV24	J227HV24
-5	J116HV13	J121HV14	J126HV14	J131HV15	J136HV15	J141HV16	J146HV16	J151HV17	J156HV17	J161HV18	J166HV18	J171HV19	J176HV19	J181HV20	J186HV20	J191HV21	J196HV21	J201HV22	J206HV22	J211HV23	J216HV23	J221HV24	J226HV24
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

RIGHT TOP BOARD (106 input connectors from J1 to J106, 14HV nets from HV1 to HV14)
4 groups of 10, 3 groups of 9, 3 groups of 8, 1 group of 6, 1 group of 4, 1 group of 3 and 1 group of 2.

5	J1 HV1	J6 HV4	J11 HV4	J16 HV4	J21 HV5	J26 HV5	J31 HV6	J36 HV6	J41 HV7	J46 HV7	J51 HV8	J56 HV8	J61 HV9	J66 HV9	J70 HV10	J74 HV10	J78 HV12	J82 HV12	J86 HV12	J90 HV12	J94 HV13	J98 HV13	J102HV13
4	J2 HV1	J7 HV4	J12 HV4	J17 HV4	J22 HV5	J27 HV5	J32 HV6	J37 HV6	J42 HV7	J47 HV7	J52 HV8	J57 HV8	J62 HV9	J67 HV9	J71 HV10	J75 HV10	J79 HV12	J83 HV12	J87 HV12	J91 HV12	J95 HV13	J99 HV13	J103HV13
3	J3 HV2	J8 HV4	J13 HV4	J18 HV4	J23 HV5	J28 HV5	J33 HV6	J38 HV6	J43 HV7	J48 HV7	J53 HV8	J58 HV8	J63 HV9	J68 HV9	J72 HV10	J76 HV10	J80 HV11	J84 HV11	J88 HV11	J92 HV11	J96 HV13	J100HV13	J104HV13
2	J4 HV2	J9 HV3	J14 HV3	J19 HV3	J24 HV5	J29 HV5	J34 HV6	J39 HV6	J44 HV7	J49 HV7	J54 HV8	J59 HV8	J64 HV9	J69 HV9	J73 HV10	J77 HV10	J81 HV11	J85 HV11	J89 HV11	J93 HV11	J97 HV14	J101HV14	J105HV14
1	J5 HV2	J10 HV3	J15 HV3	J20 HV3	J25 HV5	J30 HV6	J35 HV6	J40 HV6	J45 HV7	J50 HV7	J55 HV8	J60 HV8	J65 HV9										J106HV14
	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

RIGHT BOTTOM BOARD (106 input connectors from J107 to J212, 14HV nets from HV15 to HV28)
4 groups of 10, 3 groups of 9, 3 groups of 8, 1 group of 6, 1 group of 4, 1 group of 3 and 1 group of 2.

-1	J111HV16	J116HV17	J121HV17	J126HV17	J131HV19	J136HV19	J141HV20	J146HV20	J151HV21	J156HV21	J161HV22	J166HV22	J171HV23										J212HV28
-2	J110HV16	J115HV17	J120HV17	J125HV17	J130HV19	J135HV19	J140HV20	J145HV20	J150HV21	J155HV21	J160HV22	J165HV22	J170HV23	J175HV23	J179HV24	J183HV24	J187HV25	J191HV25	J195HV25	J199HV25	J203HV28	J207HV28	J211HV28
-3	J109HV16	J114HV18	J119HV18	J124HV18	J129 HV19	J134HV19	J139HV20	J144HV20	J149HV21	J154HV21	J159HV22	J164HV22	J169HV23	J174HV23	J178HV24	J182HV24	J186HV25	J190HV25	J194HV25	J198HV25	J202HV27	J206HV27	J210HV27
-4	J108HV15	J113HV18	J118HV18	J123HV18	J128HV19	J133HV19	J138HV20	J143HV20	J148HV21	J153HV21	J158HV22	J163HV22	J168HV23	J173HV23	J177HV24	J181HV24	J185HV26	J189HV26	J193HV26	J197HV26	J201HV27	J205HV27	J209HV27
-5	J107HV15	J112HV18	J117HV18	J122HV18	J127HV19	J132HV19	J137HV20	J142HV20	J147HV21	J152HV21	J157HV22	J162HV22	J167HV23	J172HV23	J176HV24	J180HV24	J184HV26	J188HV26	J192HV26	J196HV26	J200HV27	J204HV27	J208HV27
	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

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LEFT TOP

Px HV

1	9
2	10
3	11
4	12
5	13
6	14
7	15
8	

P1

GND	HV1
GND	HV2
GND	HV3
GND	HV4
GND	HV5
GND	HV6
GND	GND
GND	

P2

GND	HV7
GND	HV8
GND	HV9
GND	HV10
GND	HV11
GND	HV12
GND	GND
GND	

P4

GND	HV18
GND	HV17
GND	HV16
GND	HV15
GND	HV14
GND	HV13
GND	GND
GND	

P5

GND	HV24
GND	HV23
GND	HV22
GND	HV21
GND	HV20
GND	HV19
GND	GND
GND	

Px LV

1	4
2	5
3	6

P3

+5	-5
+5 sense	-5 sense
GND	GND

P6

+5	-5
+5 sense	-5 sense
GND	GND

ATTENTION: in reverse for connectors P4 and P5
in order to facilitate routing

RIGHT TOP

Px

1	9
2	10
3	11
4	12
5	13
6	14
7	15
8	

P1

GND	HV1
GND	HV2
GND	HV4
GND	HV3
GND	HV5
GND	HV6
GND	HV7
GND	

P2

GND	HV8
GND	HV9
GND	HV10
GND	HV11
GND	HV12
GND	HV14
GND	HV13
GND	

RIGHT BOTTOM

P4

GND	HV21
GND	HV20
GND	HV19
GND	HV17
GND	HV18
GND	HV16
GND	HV15
GND	

P5

GND	HV27
GND	HV28
GND	HV26
GND	HV25
GND	HV24
GND	HV23
GND	HV22
GND	

ATTENTION: HV4 after HV2 and HV14 after HV12

ATTENTION: in reverse for connectors P4 and P5
in order to facilitate routing

ATTENTION: HV17 after HV19 and HV28 after HV27

Px LV

1	4
2	5
3	6

P3

+5	-5
+5 sense	-5 sense
GND	GND

P6

+5	-5
+5 sense	-5 sense
GND	GND

LED MAP

CH	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19	-20	-21	-22	-23							
5	2	7	12	17	22	27	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	107	112	119	114	124	129	134	139	144	149	155	154	159	164	169	174	179	184	189	194	199	204	209	214	219	5						
4	3	8	13	18	23	28	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	117	115	120	125	130	136	140	145	150	151	156	160	165	170	175	180	185	190	195	200	205	210	215	220	4						
3	4	9	14	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	116	121	126	132	131	137	141	146	147	152	157	161	166	171	176	181	186	191	196	201	206	211	216	221	3						
2	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	113	122	127	128	133	138	142	143	148	153	158	162	167	172	177	182	187	192	197	202	207	212	217	222	2						
1	6	11	16	21	26	31	36	41	46	51	56	61	66	81	76	81	86	91	96	101	106	111	118	123																163	168	173	178	183	188	193	198	203	208	213	218	223	1
-1	223	218	213	208	203	198	193	188	183	178	173	168	163	158	153	148	143	138	133	128	123	118	111	106																66	61	56	51	46	41	36	31	26	21	16	11	6	-1
-2	222	217	212	207	202	197	192	187	182	177	172	167	162	157	152	147	142	137	132	127	122	117	110	105	100	101	96	90	91	80	81	76	71	65	60	55	50	45	40	35	30	25	20	15	10	5	-2						
-3	221	216	211	206	201	196	191	186	181	176	171	166	161	156	151	146	141	136	131	126	121	116	113	109	104	95	89	85	86	84	79	75	70	64	59	54	49	44	39	34	29	24	19	14	9	4	-3						
-4	220	215	210	205	200	195	190	185	180	175	170	165	160	155	150	145	140	135	130	125	120	115	108	103	99	94	98	87	88	83	73	74	68	63	58	53	48	43	38	33	28	23	18	13	8	3	-4						
-5	219	214	209	204	199	194	189	184	179	174	169	164	159	154	149	144	139	134	129	124	119	114	112	107	102	97	92	93	82	78	77	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2	-5						

The color are the color of the wires of each led connected

FADC CHANNEL MAPPING

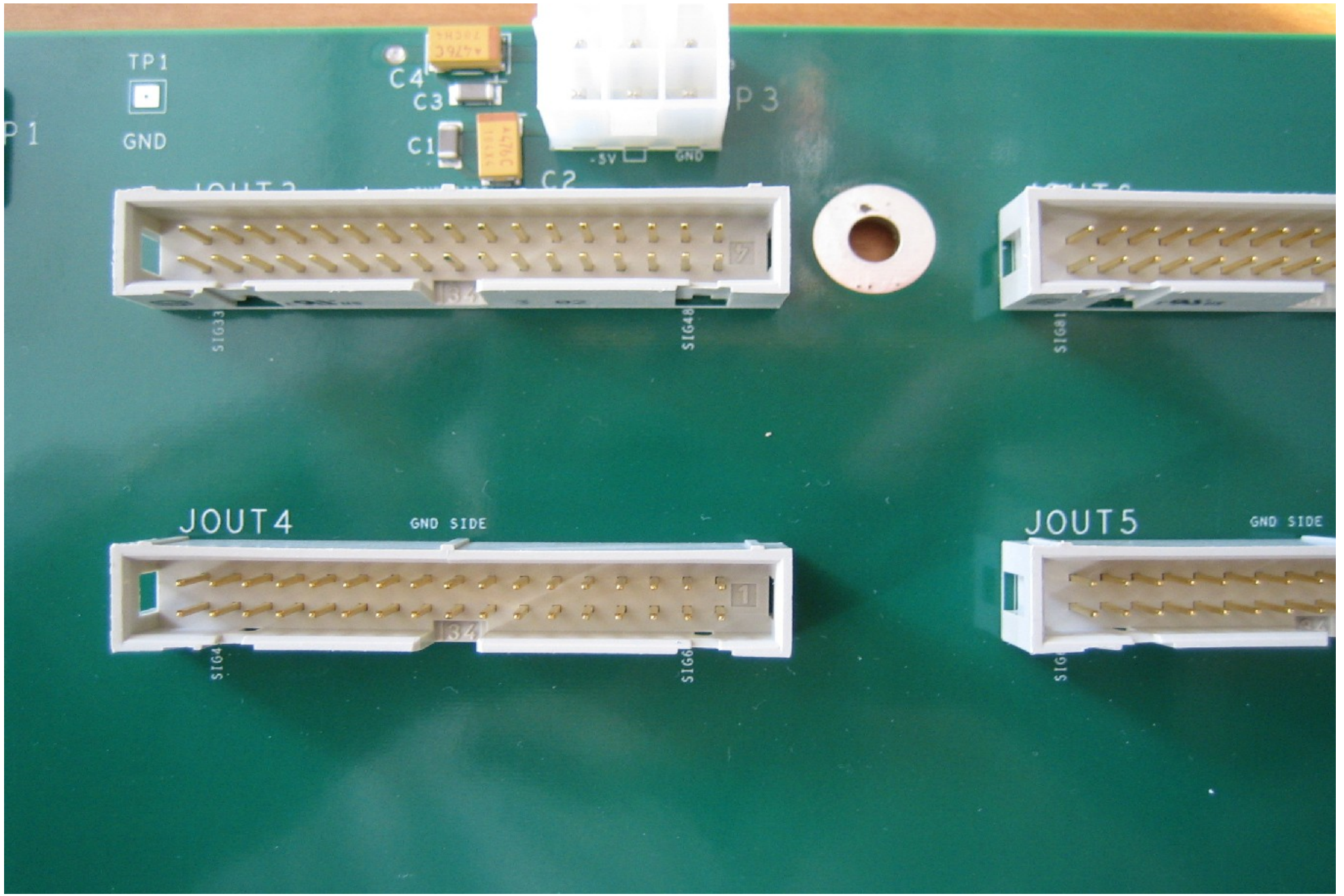
Last Updated: 8/18/2014

FADC VME SLOT NUMBER

	FADC VME SLOT NUMBER																																																		
	3			4			5			6			7			8			9			14			15			16			17			18			19			20											
5	4	9	14	3	8	13	2	7	12	1	6	11	0	5	10	15	4	9	14	3	8	13	2	7	11	15	3	7	11	15	3	7	11	0	5	10	15	4	9	14	3	8	13	2	7	12	5				
4	3	8	13	2	7	12	1	6	11	0	5	10	15	4	9	14	3	8	13	2	7	12	1	6	10	14	2	6	10	14	2	6	10	15	4	9	14	3	8	13	2	7	12	1	6	11	4				
3	2	7	12	1	6	11	0	5	10	15	4	9	14	3	8	13	2	7	12	1	6	11	0	5	9	13	1	5	9	13	1	5	9	14	3	8	13	2	7	12	1	6	11	0	5	10	3				
2	1	6	11	0	5	10	15	4	9	14	3	8	13	2	7	12	1	6	11	0	5	10	15	4	8	12	0	4	8	12	0	4	8	13	2	7	12	1	6	11	0	5	10	15	4	9	2				
1	0	5	10	15	4	9	14	3	8	13	2	7	12	1	6	11	0	5	10	15	4	9	14	3											12	1	6	11	0	5	10	15	4	9	14	3	8	1			
-1	0	5	10	15	4	9	14	3	8	13	2	7	12	1	6	11	0	5	10	15	4	9	14	3											12	1	6	11	0	5	10	15	4	9	14	3	8	-1			
-2	1	6	11	0	5	10	15	4	9	14	3	8	13	2	7	12	1	6	11	0	5	10	15	4	8	12	0	4	8	12	0	4	8	13	2	7	12	1	6	11	0	5	10	15	4	9	-2				
-3	2	7	12	1	6	11	0	5	10	15	4	9	14	3	8	13	2	7	12	1	6	11	0	5	9	13	1	5	9	13	1	5	9	14	3	8	13	2	7	12	1	6	11	0	5	10	-3				
-4	3	8	13	2	7	12	1	6	11	0	5	10	15	4	9	14	3	8	13	2	7	12	1	6	10	14	2	6	10	14	2	6	10	15	4	9	14	3	8	13	2	7	12	1	6	11	-4				
-5	4	9	14	3	8	13	2	7	12	1	6	11	0	5	10	15	4	9	14	3	8	13	2	7	11	15	3	7	11	15	3	7	11	0	5	10	15	4	9	14	3	8	13	2	7	12	-5				
	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19	-20	-21	-22	-23					

Notes:

- 1) Front facing view of calorimeter (beam goes into)
- 2) FADC Slot 20 channels 13-15 are for cosmic scintillators. Programmable pattern and time window coincidences are formed on these channels.
- 3) Coincidences can only be formed on channels on same side (top is independent of bottom)
- 4) VME slot numbers are used (not VXS payload port numbers).



TP1
GND

C4
C3
C1
C2
-5V
GND

P1

P3

JOUT 2

JOUT 3

SIG33

SIG48

SIG81

JOUT 4

GND SIDE

JOUT 5

GND SIDE

SIG4

SIG8

SIG84

GAIN MAP

This map is viewed from the back!

This map is viewed from the back!

LEFT TOP BOARD

Y																							
5	33841	34304	34075	34533	34459	34303	33986	34082	34015	34112	33876	34032	33998	33929	33924	33953	33939	33738	33889	33821	33790	33940	33924
4	33764	33879	33808	34016	33795	33933	33919	33799	33842	33854	33750	33958	33909	33882	33873	33898	33878	33792	33896	33772	33716	33919	33760
3	33661	33710	33589	33704	33561	33842	33606	33668	33667	33711	33615	33734	33634	33865	33598	33701	33582	33772	33740	33705	33683	33754	33693
2	33623	33564	33460	33471	33458	33601	33571	33591	33504	33598	33586	33592	33558	33552	33549	33577	33564	33696	33650	33680	33605	33672	33595
1	33593	33415	33313	33449	33399	33548	33329	33397	33350	33540	33413	33126	33341	33458	33334	33498	33414	33629	33589	33597	33585	33595	33584
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

LEFT BOTTOM BOARD

-1	33526	33268	33586	33101	33462	33067	33137	33355	33419	33298	33318	33288	33330	33374	33410	33354	33476	33590	33621	33584	33588	33463	33472
-2	33585	33594	33595	33609	33612	33417	33835	33565	33566	33346	33734	33591	33613	33461	33588	33585	33607	33635	33639	33699	33729	33653	33664
-3	33656	33595	33605	33838	33858	33842	33879	33593	33770	33755	33763	33659	33746	33603	33738	33670	33705	33641	33709	33740	33748	33666	33669
-4	33808	33654	33670	33863	33887	33894	33938	33843	34016	33858	33882	33858	33918	33843	33856	33880	33885	33752	33811	33755	33758	33681	33703
-5	33813	33758	34223	33921	34018	33948	34007	34020	34075	33946	33992	33923	33933	33891	34016	33925	33944	33822	33917	33760	33802	33795	33834
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

RIGHT TOP BOARD

5	33743	34497	33923	33804	33916	33893	33899	34867	33886	33843	33894	33850	33915	33882	34083	33876	33887	33887	33875	33839	33805	33884	34112
4	33587	33777	33620	33602	33869	33811	33734	33687	33800	33780	33809	33806	33838	33835	33835	33662	33735	33705	33563	33478	33671	33760	33802
3	33798	33540	33501	33413	33788	33753	33642	33634	33705	33655	33734	33722	33758	33717	33593	33556	33919	33830	33711	33688	33447	33563	33591
2	33714	33800	33769	33753	33595	33576	33600	33583	33602	33593	33593	33589	33594	33578	33462	33454	33671	33590	33554	33434	33673	33689	33631
1	33707	33640	33640	33592	33493	33476	33580	33577	33583	33579	33562	33460	33498										33905
	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

RIGHT BOTTOM BOARD

-1	33593	33615	33597	33591	33567	33465	33574	33572	33592	33590	33590	33579	33498										33470
-2	33783	33854	33853	33842	33585	33581	33584	33579	33648	33607	33596	33595	33610	33386	33837	33563	33706	33607	33597	33557	33506	33783	34017
-3	33796	33536	33461	33150	33595	33592	33672	33593	33737	33709	33601	33598	33706	33664	33592	33590	33934	33894	33856	33792	33465	33580	33694
-4	33732	33715	33595	33590	33769	33713	33796	33782	33760	34066	33870	33649	33883	33881	33671	33599	33664	33475	33463	33430	33599	33709	33730
-5	33736	34247	34002	33850	33998	33917	33883	33811	33740	33821	33992	33875	33906	33886	33892	33794	33963	33907	33851	33848	34137	33788	34216
	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

This map is viewed from the back!

This map is viewed from the back!

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
1	-5	8	N182	HV13	112	1.5	2	14	J116	9	33813	Left bottom board
1	-4	46	N056	HV13	108	1.5	1	14	J117	9	33808	Left bottom board
1	-3	45	N049	HV13	113	1.5	0	14	J118	9	33656	Left bottom board
1	-2	3	N274	HV13	110	1.5	15	9	J119	9	33585	Left bottom board
1	-1	7	N400	HV13	111	1.5	14	9	J120	9	33526	Left bottom board
2	-5	168	N291	HV14	114	1.6	13	9	J121	9	33758	Left bottom board
2	-4	164	N349	HV14	115	1.6	12	9	J122	9	33654	Left bottom board
2	-3	162	N124	HV14	116	1.6	11	9	J123	9	33595	Left bottom board
2	-2	158	N069	HV14	117	1.6	10	9	J124	9	33594	Left bottom board
2	-1	163	N052	HV14	118	1.6	9	9	J125	9	33268	Left bottom board
3	-5	159	N083	HV14	119	1.6	8	9	J126	9	34223	Left bottom board
3	-4	161	N490	HV14	120	1.6	7	9	J127	9	33670	Left bottom board
3	-3	167	N262	HV14	121	1.6	6	9	J128	9	33605	Left bottom board
3	-2	166	N337	HV14	122	1.6	5	9	J129	9	33595	Left bottom board
3	-1	160	N296	HV14	123	1.6	4	9	J130	9	33586	Left bottom board
4	-5	359	N411	HV15	124	1.6	3	9	J131	9	33921	Left bottom board
4	-4	353	N028	HV15	125	1.6	2	9	J132	10	33863	Left bottom board
4	-3	360	N003	HV15	126	1.6	1	9	J133	10	33838	Left bottom board
4	-2	357	N153	HV15	127	1.6	0	9	J134	10	33609	Left bottom board
4	-1	356	N441	HV15	128	1.6	15	8	J135	10	33101	Left bottom board
5	-5	354	N020	HV15	129	1.6	14	8	J136	10	34018	Left bottom board
5	-4	358	N103	HV15	130	1.6	13	8	J137	10	33887	Left bottom board
5	-3	349	N395	HV15	131	1.6	12	8	J138	10	33858	Left bottom board
5	-2	355	N168	HV15	132	1.6	11	8	J139	10	33612	Left bottom board
5	-1	350	N427	HV15	133	1.6	10	8	J140	11	33462	Left bottom board
6	-5	508	N027	HV16	134	1.6	9	8	J141	11	33948	Left bottom board
6	-4	516	N186	HV16	135	1.6	8	8	J142	11	33894	Left bottom board
6	-3	509	N159	HV16	136	1.6	7	8	J143	11	33842	Left bottom board
6	-2	506	N294	HV16	137	1.6	6	8	J144	11	33417	Left bottom board
6	-1	507	N304	HV16	138	1.6	5	8	J145	11	33067	Left bottom board
7	-5	513	N165	HV16	139	1.6	4	8	J146	11	34007	Left bottom board
7	-4	510	N328	HV16	140	1.6	3	8	J147	11	33938	Left bottom board
7	-3	515	N111	HV16	141	1.6	2	8	J148	11	33879	Left bottom board
7	-2	511	N043	HV16	142	1.6	1	8	J149	11	33835	Left bottom board
7	-1	505	N250	HV16	143	1.6	0	8	J150	11	33137	Left bottom board
8	-5	386	N277	HV17	144	1.6	15	7	J151	11	34020	Left bottom board
8	-4	395	N414	HV17	145	1.6	14	7	J152	11	33843	Left bottom board
8	-3	385	N008	HV17	146	1.6	13	7	J153	11	33593	Left bottom board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
8	-2	391	N418	HV17	147	1.6	12	7	J154	11	33565	Left bottom board
8	-1	396	N190	HV17	148	1.6	11	7	J155	11	33355	Left bottom board
9	-5	390	N275	HV17	149	1.6	10	7	J156	12	34075	Left bottom board
9	-4	388	N050	HV17	150	1.6	9	7	J157	12	34016	Left bottom board
9	-3	392	N323	HV17	151	1.6	8	7	J158	12	33770	Left bottom board
9	-2	387	N507	HV17	152	1.6	7	7	J159	12	33566	Left bottom board
9	-1	394	N282	HV17	153	1.6	6	7	J160	12	33419	Left bottom board
10	-5	273	N038	HV18	154	1.6	5	7	J161	12	33946	Left bottom board
10	-4	271	N036	HV18	155	1.6	4	7	J162	12	33858	Left bottom board
10	-3	274	N004	HV18	156	1.6	3	7	J163	12	33755	Left bottom board
10	-2	268	N437	HV18	157	1.6	2	7	J164	12	33346	Left bottom board
10	-1	266	N501	HV18	158	1.6	1	7	J165	12	33298	Left bottom board
11	-5	272	N453	HV18	159	1.6	0	7	J166	12	33992	Left bottom board
11	-4	270	N413	HV18	160	1.6	15	6	J167	12	33882	Left bottom board
11	-3	269	N377	HV18	161	1.6	14	6	J168	12	33763	Left bottom board
11	-2	276	N131	HV18	162	1.6	13	6	J169	12	33734	Left bottom board
11	-1	275	N138	HV18	163	1.6	12	6	J170	12	33318	Left bottom board
12	-5	459	N075	HV19	164	1.6	11	6	J171	12	33923	Left bottom board
12	-4	462	N504	HV19	165	1.6	10	6	J172	13	33858	Left bottom board
12	-3	467	N067	HV19	166	1.6	9	6	J173	13	33659	Left bottom board
12	-2	468	N366	HV19	167	1.6	8	6	J174	13	33591	Left bottom board
12	-1	465	N385	HV19	168	1.6	7	6	J175	13	33288	Left bottom board
13	-5	469	N053	HV19	169	1.7	6	6	J176	13	33933	Left bottom board
13	-4	466	N098	HV19	170	1.7	5	6	J177	13	33918	Left bottom board
13	-3	480	N405	HV19	171	1.7	4	6	J178	13	33746	Left bottom board
13	-2	464	N206	HV19	172	1.7	3	6	J179	13	33613	Left bottom board
13	-1	401	N360	HV19	173	1.7	2	6	J180	13	33330	Left bottom board
14	-5	55	N332	HV20	174	1.7	1	6	J181	13	33891	Left bottom board
14	-4	52	N104	HV20	175	1.7	0	6	J182	13	33843	Left bottom board
14	-3	56	N232	HV20	176	1.7	15	5	J183	13	33603	Left bottom board
14	-2	49	N368	HV20	177	1.7	14	5	J184	13	33461	Left bottom board
14	-1	53	N180	HV20	178	1.7	13	5	J185	13	33374	Left bottom board
15	-5	60	N424	HV20	179	1.7	12	5	J186	13	34016	Left bottom board
15	-4	59	N462	HV20	180	1.7	11	5	J187	13	33856	Left bottom board
15	-3	58	N454	HV20	181	1.7	10	5	J188	14	33738	Left bottom board
15	-2	57	N154	HV20	182	1.7	9	5	J189	14	33588	Left bottom board
15	-1	54	N422	HV20	183	1.7	8	5	J190	14	33410	Left bottom board
16	-5	241	N487	HV21	184	1.7	7	5	J191	14	33925	Left bottom board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
16	-4	243	N099	HV21	185	1.7	6	5	J192	14	33880	Left bottom board
16	-3	249	N158	HV21	186	1.7	5	5	J193	14	33670	Left bottom board
16	-2	245	N344	HV21	187	1.7	4	5	J194	14	33585	Left bottom board
16	-1	250	N178	HV21	188	1.7	3	5	J195	14	33354	Left bottom board
17	-5	244	N058	HV21	189	1.7	2	5	J196	14	33944	Left bottom board
17	-4	246	N401	HV21	190	1.7	1	5	J197	14	33885	Left bottom board
17	-3	251	N068	HV21	191	1.7	0	5	J198	14	33705	Left bottom board
17	-2	247	N194	HV21	192	1.7	15	4	J199	14	33607	Left bottom board
17	-1	242	N121	HV21	193	1.7	14	4	J200	14	33476	Left bottom board
18	-5	149	N051	HV22	194	1.7	13	4	J201	14	33822	Left bottom board
18	-4	21	N450	HV22	195	1.7	12	4	J202	14	33752	Left bottom board
18	-3	81	N157	HV22	196	1.7	11	4	J203	14	33641	Left bottom board
18	-2	75	N429	HV22	197	1.7	10	4	J204	15	33635	Left bottom board
18	-1	15	N472	HV22	198	1.7	9	4	J205	15	33590	Left bottom board
19	-5	65	N312	HV22	199	1.7	8	4	J206	15	33917	Left bottom board
19	-4	120	N361	HV22	200	1.7	7	4	J207	15	33811	Left bottom board
19	-3	122	N491	HV22	201	1.7	6	4	J208	15	33709	Left bottom board
19	-2	66	N057	HV22	202	1.7	5	4	J209	15	33639	Left bottom board
19	-1	131	N175	HV22	203	1.7	4	4	J210	15	33621	Left bottom board
20	-5	123	N505	HV23	204	1.7	3	4	J211	15	33760	Left bottom board
20	-4	26	N100	HV23	205	1.7	2	4	J212	15	33755	Left bottom board
20	-3	130	N264	HV23	206	1.7	1	4	J213	15	33740	Left bottom board
20	-2	145	N256	HV23	207	1.7	0	4	J214	15	33699	Left bottom board
20	-1	74	N085	HV23	208	1.7	15	3	J215	15	33584	Left bottom board
21	-5	127	N091	HV23	209	1.7	14	3	J216	15	33802	Left bottom board
21	-4	77	N271	HV23	210	1.7	13	3	J217	15	33758	Left bottom board
21	-3	28	N021	HV23	211	1.7	12	3	J218	15	33748	Left bottom board
21	-2	35	N002	HV23	212	1.7	11	3	J219	15	33729	Left bottom board
21	-1	83	N409	HV23	213	1.7	10	3	J220	16	33588	Left bottom board
22	-5	448	N094	HV24	214	1.7	9	3	J221	16	33795	Left bottom board
22	-4	479	N229	HV24	215	1.7	8	3	J222	16	33681	Left bottom board
22	-3	451	N200	HV24	216	1.7	7	3	J223	16	33666	Left bottom board
22	-2	456	N037	HV24	217	1.7	6	3	J224	16	33653	Left bottom board
22	-1	463	N211	HV24	218	1.7	5	3	J225	16	33463	Left bottom board
23	-5	455	N174	HV24	219	1.7	4	3	J226	16	33834	Left bottom board
23	-4	476	N367	HV24	220	1.7	3	3	J227	16	33703	Left bottom board
23	-3	449	N110	HV24	221	1.7	2	3	J228	16	33669	Left bottom board
23	-2	470	N308	HV24	222	1.7	1	3	J229	16	33664	Left bottom board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
23	-1	457	N107	HV24	223	1.7	0	3	J230	16	33472	Left bottom board
1	1	39	N207	HV10	118	1.9	14	9	J5	1	33593	Left top board
1	2	43	N297	HV10	113	1.9	15	9	J4	1	33623	Left top board
1	3	512	N261	HV10	116	1.9	0	14	J3	1	33661	Left top board
1	4	12	N280	HV10	117	1.9	1	14	J2	1	33764	Left top board
1	5	514	N348	HV10	112	1.9	2	14	J1	1	33841	Left top board
2	1	434	N081	HV2	111	1.8	9	9	J10	1	33415	Left top board
2	2	379	N420	HV2	110	1.8	10	9	J9	1	33564	Left top board
2	3	437	N369	HV2	109	1.8	11	9	J8	1	33710	Left top board
2	4	436	N122	HV2	108	1.8	12	9	J7	1	33879	Left top board
2	5	439	N034	HV2	107	1.8	13	9	J6	1	34304	Left top board
3	1	442	N061	HV2	106	1.8	4	9	J15	1	33313	Left top board
3	2	381	N339	HV2	105	1.8	5	9	J14	1	33460	Left top board
3	3	377	N265	HV2	104	1.8	6	9	J13	1	33589	Left top board
3	4	435	N208	HV2	103	1.8	7	9	J12	1	33808	Left top board
3	5	441	N096	HV2	102	1.8	8	9	J11	1	34075	Left top board
4	1	342	N299	HV3	101	1.8	15	8	J20	2	33449	Left top board
4	2	340	N074	HV3	100	1.8	0	9	J19	2	33471	Left top board
4	3	337	N246	HV3	99	1.8	1	9	J18	2	33704	Left top board
4	4	343	N059	HV3	98	1.8	2	9	J17	2	34016	Left top board
4	5	344	N492	HV3	97	1.8	3	9	J16	1	34533	Left top board
5	1	339	N247	HV3	96	1.8	10	8	J25	2	33399	Left top board
5	2	348	N177	HV3	95	1.8	11	8	J24	2	33458	Left top board
5	3	346	N278	HV3	94	1.8	12	8	J23	2	33561	Left top board
5	4	347	N230	HV3	93	1.8	13	8	J22	2	33795	Left top board
5	5	345	N087	HV3	92	1.8	14	8	J21	2	34459	Left top board
6	1	369	N267	HV4	91	1.8	5	8	J30	2	33548	Left top board
6	2	371	N495	HV4	90	1.8	6	8	J29	2	33601	Left top board
6	3	363	N452	HV4	89	1.8	7	8	J28	2	33842	Left top board
6	4	370	N302	HV4	88	1.8	8	8	J27	2	33933	Left top board
6	5	368	N070	HV4	87	1.8	9	8	J26	2	34303	Left top board
7	1	361	N221	HV4	86	1.8	0	8	J35	3	33329	Left top board
7	2	364	N006	HV4	85	1.8	1	8	J34	3	33571	Left top board
7	3	367	N173	HV4	84	1.8	2	8	J33	3	33606	Left top board
7	4	372	N106	HV4	83	1.8	3	8	J32	2	33919	Left top board
7	5	362	N023	HV4	82	1.8	4	8	J31	2	33986	Left top board
8	1	292	N432	HV5	81	1.8	11	7	J40	3	33397	Left top board
8	2	403	N375	HV5	80	1.8	12	7	J39	3	33591	Left top board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
8	3	295	N285	HV5	79	1.8	13	7	J38	3	33668	Left top board
8	4	408	N114	HV5	78	1.8	14	7	J37	3	33799	Left top board
8	5	400	N088	HV5	77	1.8	15	7	J36	3	34082	Left top board
9	1	486	N347	HV5	76	1.8	6	7	J45	3	33350	Left top board
9	2	397	N270	HV5	75	1.8	7	7	J44	3	33504	Left top board
9	3	399	N007	HV5	74	1.8	8	7	J43	3	33667	Left top board
9	4	488	N210	HV5	73	1.8	9	7	J42	3	33842	Left top board
9	5	407	N195	HV5	72	1.8	10	7	J41	3	34015	Left top board
10	1	450	N289	HV6	71	1.8	1	7	J50	4	33540	Left top board
10	2	380	N212	HV6	70	1.8	2	7	J49	4	33598	Left top board
10	3	383	N231	HV6	69	1.8	3	7	J48	3	33711	Left top board
10	4	443	N446	HV6	68	1.8	4	7	J47	3	33854	Left top board
10	5	433	N140	HV6	67	1.8	5	7	J46	3	34112	Left top board
11	1	475	N331	HV6	66	1.8	12	6	J55	4	33413	Left top board
11	2	375	N470	HV6	65	1.8	13	6	J54	4	33586	Left top board
11	3	384	N440	HV6	64	1.8	14	6	J53	4	33615	Left top board
11	4	447	N386	HV6	63	1.8	15	6	J52	4	33750	Left top board
11	5	440	N457	HV6	62	1.8	0	7	J51	4	33876	Left top board
12	1	200	N016	HV7	61	1.8	7	6	J60	4	33454	Left top board
12	2	227	N134	HV7	60	1.8	8	6	J59	4	33592	Left top board
12	3	201	N305	HV7	59	1.8	9	6	J58	4	33734	Left top board
12	4	202	N255	HV7	58	1.8	10	6	J57	4	33958	Left top board
12	5	222	N017	HV7	57	1.8	11	6	J56	4	34032	Left top board
13	1	220	N460red	HV7	56	1.0	2	6	J65	5	33341	Left top board
13	2	217	N352	HV7	55	1.0	3	6	J64	4	33558	Left top board
13	3	199	N442	HV7	54	1.0	4	6	J63	4	33634	Left top board
13	4	221	N355	HV7	53	1.0	5	6	J62	4	33909	Left top board
13	5	223	N039	HV7	52	1.0	6	6	J61	4	33998	Left top board
14	1	428	N388	HV8	51	1	13	5	J70	5	33458	Left top board
14	2	423	N269	HV8	50	1.0	14	5	J69	5	33552	Left top board
14	3	432	N447	HV8	49	1.0	15	5	J68	5	33865	Left top board
14	4	422	N166	HV8	48	1.0	0	6	J67	5	33882	Left top board
14	5	421	N488	HV8	47	1.0	1	6	J66	5	33929	Left top board
15	1	425	N215	HV8	46	1	8	5	J75	5	33334	Left top board
15	2	427	N373	HV8	45	1	9	5	J74	5	33549	Left top board
15	3	429	N435	HV8	44	1	10	5	J73	5	33598	Left top board
15	4	431	N334	HV8	43	1	11	5	J72	5	33873	Left top board
15	5	426	N113	HV8	42	1	12	5	J71	5	33924	Left top board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
16	1	294	N408	HV9	41	1	3	5	J80	5	33498	Left top board
16	2	289	N398	HV9	40	1	4	5	J79	5	33577	Left top board
16	3	293	N193	HV9	39	1	5	5	J78	5	33701	Left top board
16	4	482	N357	HV9	38	1	6	5	J77	5	33898	Left top board
16	5	299	N146	HV9	37	1	7	5	J76	5	33953	Left top board
17	1	291	N133	HV9	36	1.0	14	4	J85	6	33414	Left top board
17	2	300	N425	HV9	35	1.0	15	4	J84	6	33564	Left top board
17	3	296	N281	HV9	34	1	0	5	J83	6	33582	Left top board
17	4	490	N356	HV9	33	1	1	5	J82	6	33878	Left top board
17	5	290	N198	HV9	32	1	2	5	J81	6	33939	Left top board
18	1	51	N115	HV10	31	1.0	9	4	J90	6	33629	Left top board
18	2	37	N436	HV10	30	1.0	10	4	J89	6	33696	Left top board
18	3	44	N333	HV10	29	1.0	11	4	J88	6	33772	Left top board
18	4	41	N412	HV10	28	1.0	12	4	J87	6	33792	Left top board
18	5	10	N169	HV10	27	1.0	13	4	J86	6	33941	Left top board
19	1	112	N244	HV10	26	1.0	4	4	J95	6	33589	Left top board
19	2	9	N236	HV10	25	1.0	5	4	J94	6	33650	Left top board
19	3	2	N245	HV10	24	1.0	6	4	J93	6	33740	Left top board
19	4	4	N509	HV10	23	1.0	7	4	J92	6	33791	Left top board
19	5	1	N130	HV10	22	1.0	8	4	J91	6	33889	Left top board
20	1	147	N112	HV11	21	1.0	15	3	J100	7	33597	Left top board
20	2	14	N054	HV11	20	1	0	4	J99	7	33680	Left top board
20	3	113	N235	HV11	19	1	1	4	J98	7	33705	Left top board
20	4	61	N359	HV11	18	1	2	4	J97	7	33772	Left top board
20	5	119	N473	HV11	17	1.0	3	4	J96	6	33821	Left top board
21	1	62	N224	HV11	16	1.0	10	3	J105	7	33585	Left top board
21	2	154	N078	HV11	15	1.0	11	3	J104	7	33605	Left top board
21	3	70	N259	HV11	14	1.0	12	3	J103	7	33683	Left top board
21	4	80	N311	HV11	13	1.0	13	3	J102	7	33716	Left top board
21	5	155	N161	HV11	12	1.0	14	3	J101	7	33790	Left top board
22	1	473	N090	HV12	11	1	5	3	J110	7	33595	Left top board
22	2	376	N443	HV12	10	1.0	6	3	J109	7	33672	Left top board
22	3	446	N319	HV12	9	1.0	7	3	J108	7	33754	Left top board
22	4	478	N156	HV12	8	1.0	8	3	J107	7	33919	Left top board
22	5	374	N079	HV12	7	1.0	9	3	J106	7	33940	Left top board
23	1	453	N310	HV12	6	1	0	3	J115	8	33584	Left top board
23	2	474	N458	HV12	5	1	1	3	J114	8	33595	Left top board
23	3	477	N181	HV12	4	1	2	3	J113	8	33693	Left top board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
23	4	445	N416	HV12	3	1	3	3	J112	7	33760	Left top board
23	5	378	N022	HV12	2	1	4	3	J111	7	33924	Left top board
-23	-5	237	N044	HV15	2	1.4	12	20	J107	8	33736	Right bottom board
-23	-4	232	N382	HV15	3	1.4	11	20	J108	8	33732	Right bottom board
-23	-3	438	N500	HV16	4	1.4	10	20	J109	8	33796	Right bottom board
-23	-2	444	N041	HV16	5	1.4	9	20	J110	8	33783	Right bottom board
-23	-1	366	N288	HV16	6	1.4	8	20	J111	8	33593	Right bottom board
-22	-5	327	N220	HV18	7	1.4	7	20	J112	8	34247	Right bottom board
-22	-4	330	N237	HV18	8	1.4	6	20	J113	8	33715	Right bottom board
-22	-3	329	N330	HV18	9	1.4	5	20	J114	8	33536	Right bottom board
-22	-2	263	N341	HV17	10	1.4	4	20	J115	8	33854	Right bottom board
-22	-1	461	N345	HV17	11	1.4	3	20	J116	8	33615	Right bottom board
-21	-5	331	N013	HV18	12	1.4	2	20	J117	8	34002	Right bottom board
-21	-4	333	N030	HV18	13	1.4	1	20	J118	8	33595	Right bottom board
-21	-3	335	N293	HV18	14	1.4	0	20	J119	8	33461	Right bottom board
-21	-2	267	N406	HV17	15	1.4	15	19	J120	8	33853	Right bottom board
-21	-1	393	N109	HV17	16	1.4	14	19	J121	8	33597	Right bottom board
-20	-5	326	N120	HV18	17	1.4	13	19	J122	8	33850	Right bottom board
-20	-4	328	N077	HV18	18	1.4	12	19	J123	9	33590	Right bottom board
-20	-3	325	N243	HV18	19	1.4	11	19	J124	9	33150	Right bottom board
-20	-2	458	N374	HV17	20	1.4	10	19	J125	9	33842	Right bottom board
-20	-1	472	N260	HV17	21	1.4	9	19	J126	9	33591	Right bottom board
-19	-5	121	N042	HV19	22	1.4	8	19	J127	9	33998	Right bottom board
-19	-4	73	N029	HV19	23	1.4	7	19	J128	9	33769	Right bottom board
-19	-3	153	N329	HV19	24	1.4	6	19	J129	9	33595	Right bottom board
-19	-2	95	N438	HV19	25	1.4	5	19	J130	9	33586	Right bottom board
-19	-1	94	N396	HV19	26	1.4	4	19	J131	9	33567	Right bottom board
-18	-5	82	N399	HV19	27	1.4	3	19	J132	9	33917	Right bottom board
-18	-4	126	N283	HV19	28	1.4	2	19	J133	9	33713	Right bottom board
-18	-3	128	N252	HV19	29	1.4	1	19	J134	9	33592	Right bottom board
-18	-2	30	N306	HV19	30	1.4	0	19	J135	9	33581	Right bottom board
-18	-1	86	N279	HV19	31	1.4	15	18	J136	9	33465	Right bottom board
-17	-5	483	N082	HV20	32	1.4	14	18	J137	9	33883	Right bottom board
-17	-4	460	N485	HV20	33	1.4	13	18	J138	9	33796	Right bottom board
-17	-3	492	N183	HV20	34	1.4	12	18	J139	10	33672	Right bottom board
-17	-2	487	N276	HV20	35	1.4	11	18	J140	10	33584	Right bottom board
-17	-1	485	N218	HV20	36	1.4	10	18	J141	10	33574	Right bottom board
-16	-5	484	N118	HV20	37	1.4	9	18	J142	10	33811	Right bottom board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
-16	-4	405	N428	HV20	38	1.4	8	18	J143	10	33782	Right bottom board
-16	-3	402	N448	HV20	39	1.4	7	18	J144	10	33593	Right bottom board
-16	-2	404	N316	HV20	40	1.4	6	18	J145	10	33579	Right bottom board
-16	-1	489	N380	HV20	41	1.4	5	18	J146	10	33572	Right bottom board
-15	-5	17	N062	HV21	42	1.4	4	18	J147	10	33899	Right bottom board
-15	-4	64	N258	HV21	43	1.4	3	18	J148	10	33760	Right bottom board
-15	-3	78	N226	HV21	44	1.4	2	18	J149	10	33737	Right bottom board
-15	-2	111	N240	HV21	45	1.4	1	18	J150	10	33648	Right bottom board
-15	-1	79	N254	HV21	46	1.4	0	18	J151	10	33592	Right bottom board
-14	-5	114	N141	HV21	47	1.4	15	17	J152	10	33882	Right bottom board
-14	-4	110	N108	HV21	48	1.4	14	17	J153	10	33768	Right bottom board
-14	-3	23	N105	HV21	49	1.4	13	17	J154	10	33709	Right bottom board
-14	-2	76	N417	HV21	50	1.4	12	17	J155	11	33607	Right bottom board
-14	-1	69	N469blue	HV21	51	1.4	11	17	J156	11	33590	Right bottom board
-13	-5	499	N483	HV8	52	1.4	10	17	J157	11	33992	Right bottom board
-13	-4	503	N214	HV8	53	1.4	9	17	J158	11	33870	Right bottom board
-13	-3	495	N393	HV8	54	1.4	8	17	J159	11	33601	Right bottom board
-13	-2	494	N322	HV8	55	1.4	7	17	J160	11	33596	Right bottom board
-13	-1	493	N394	HV8	56	1.4	6	17	J161	11	33590	Right bottom board
-12	-5	498	N251	HV8	57	1.5	5	17	J162	11	33875	Right bottom board
-12	-4	500	N163	HV8	58	1.5	4	17	J163	11	33649	Right bottom board
-12	-3	504	N362	HV8	59	1.5	3	17	J164	11	33598	Right bottom board
-12	-2	496	N065	HV8	60	1.5	2	17	J165	11	33595	Right bottom board
-12	-1	502	N228	HV8	61	1.5	1	17	J166	11	33579	Right bottom board
-11	-5	321	N295	HV23	62	1.5	0	17	J167	11	33906	Right bottom board
-11	-4	315	N494	HV23	63	1.5	15	16	J168	11	33883	Right bottom board
-11	-3	320	N164	HV23	64	1.5	14	16	J169	11	33706	Right bottom board
-11	-2	336	N249	HV23	65	1.5	13	16	J170	11	33610	Right bottom board
-11	-1	332	N327	HV23	66	1.5	12	16	J171	12	33498	Right bottom board
-10	-5	316	N335	HV23	67	1.5	11	16	J172	12	33886	Right bottom board
-10	-4	314	N321	HV23	68	1.5	10	16	J173	12	33881	Right bottom board
-10	-3	317	N129	HV23	70	1.5	9	16	J174	12	33664	Right bottom board
-10	-2	324	N466red	HV23	71	1.5	8	16	J175	12	33386	Right bottom board
-9	-5	20	N370	HV24	72	1.5	7	16	J176	12	33892	Right bottom board
-9	-4	150	N179	HV24	74	1.5	6	16	J177	12	33671	Right bottom board
-9	-3	117	N439	HV24	75	1.5	5	16	J179	12	33592	Right bottom board
-9	-2	84	N459	HV24	76	1.5	4	16	J179	12	33837	Right bottom board
-8	-5	116	N364	HV24	77	1.5	3	16	J180	12	33794	Right bottom board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
-8	-4	16	N239	HV24	73	1.5	2	16	J181	12	33599	Right bottom board
-8	-3	115	N026	HV24	79	1.5	1	16	J182	12	33590	Right bottom board
-8	-2	148	N031	HV24	81	1.5	0	16	J183	12	33563	Right bottom board
-7	-5	310	N301	HV26	78	1.5	15	15	J184	12	33963	Right bottom board
-7	-4	307	N209	HV26	83	1.5	14	15	J185	12	33664	Right bottom board
-7	-3	34	N126	HV25	84	1.5	13	15	J186	12	33934	Right bottom board
-7	-2	146	N136	HV25	80	1.5	12	15	J187	13	33706	Right bottom board
-6	-5	305	N431	HV26	82	1.5	11	15	J188	13	33907	Right bottom board
-6	-4	313	N410	HV26	88	1.5	10	15	J189	13	33475	Right bottom board
-6	-3	31	N095	HV25	86	1.5	9	15	J190	13	33894	Right bottom board
-6	-2	13	N415	HV25	91	1.5	8	15	J191	13	33607	Right bottom board
-5	-5	312	N342	HV26	93	1.5	7	15	J192	13	33852	Right bottom board
-5	-4	302	N354	HV26	87	1.5	6	15	J193	13	33463	Right bottom board
-5	-3	63	N184	HV25	85	1.5	5	15	J194	13	33856	Right bottom board
-5	-2	152	N421	HV25	90	1.5	4	15	J195	13	33597	Right bottom board
-4	-5	308	N292	HV26	92	1.5	3	15	J196	13	33848	Right bottom board
-4	-4	309	N167	HV26	98	1.5	2	15	J197	13	33430	Right bottom board
-4	-3	72	N407	HV25	89	1.5	1	15	J198	13	33792	Right bottom board
-4	-2	96	N455	HV25	96	1.5	0	15	J199	13	33557	Right bottom board
-3	-5	212	N032	HV27	97	1.5	15	14	J200	13	34137	Right bottom board
-3	-4	216	N225	HV27	94	1.5	14	14	J201	13	33599	Right bottom board
-3	-3	211	N223	HV27	95	1.5	13	14	J202	13	33465	Right bottom board
-3	-2	323	N201	HV28	101	1.5	12	14	J203	14	33506	Right bottom board
-2	-5	213	N268	HV27	102	1.5	11	14	J204	14	33788	Right bottom board
-2	-4	214	N048	HV27	99	1.5	10	14	J205	14	33709	Right bottom board
-2	-3	210	N298	HV27	104	1.5	9	14	J206	14	33580	Right bottom board
-2	-2	322	N387	HV28	100	1.5	8	14	J207	14	33783	Right bottom board
-1	-5	209	N015	HV27	107	1.5	7	14	J208	14	34216	Right bottom board
-1	-4	205	N372	HV27	103	1.5	6	14	J209	14	33730	Right bottom board
-1	-3	206	N005	HV27	109	1.5	5	14	J210	14	33694	Right bottom board
-1	-2	319	N066	HV28	105	1.5	4	14	J211	14	34017	Right bottom board
-1	-1	318	N160	HV28	106	1.5	3	14	J212	14	33470	Right bottom board
-23	1	190	N102	HV2	223	1.3	8	20	J5	1	33707	Right top board
-23	2	224	N419	HV2	222	1.3	9	20	J4	1	33714	Right top board
-23	3	228	N199	HV2	221	1.3	10	20	J3	1	33798	Right top board
-23	4	207	N287	HV10	220	1.3	11	20	J2	1	33587	Right top board
-23	5	208	N266	HV10	219	1.3	12	20	J1	1	33743	Right top board
-22	1	105	N080	HV3	218	1.3	3	20	J10	1	33640	Right top board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
-22	2	102	N196	HV3	217	1.3	4	20	J9	1	33800	Right top board
-22	3	136	N119	HV4	216	1.3	5	20	J8	1	33540	Right top board
-22	4	85	N403	HV4	215	1.3	6	20	J7	1	33777	Right top board
-22	5	141	N086	HV4	214	1.3	7	20	J6	1	34497	Right top board
-21	1	179	N248	HV3	213	1.3	14	19	J15	1	33640	Right top board
-21	2	170	N376	HV3	212	1.3	15	19	J14	1	33769	Right top board
-21	3	157	N125	HV4	211	1.3	0	20	J13	1	33501	Right top board
-21	4	143	N197	HV4	210	1.3	1	20	J12	1	33620	Right top board
-21	5	142	N047	HV4	209	1.3	2	20	J11	1	33923	Right top board
-20	1	173	N307	HV3	208	1.3	9	19	J20	2	33592	Right top board
-20	2	108	N219	HV3	207	1.3	10	19	J19	2	33753	Right top board
-20	3	99	N233	HV4	206	1.3	11	19	J18	2	33413	Right top board
-20	4	88	N353	HV4	205	1.3	12	19	J17	2	33602	Right top board
-20	5	89	N145	HV4	204	1.3	13	19	J16	1	33804	Right top board
-19	1	285	N326	HV5	203	1.3	4	19	J25	2	33493	Right top board
-19	2	281	N338	HV5	202	1.3	5	19	J24	2	33595	Right top board
-19	3	288	N456	HV5	201	1.3	6	19	J23	2	33788	Right top board
-19	4	286	N071	HV5	200	1.3	7	19	J22	2	33869	Right top board
-19	5	287	N046	HV5	199	1.3	8	19	J21	2	33916	Right top board
-18	1	282	N379	HV5	198	1.3	15	18	J30	2	33476	Right top board
-18	2	278	N404	HV5	197	1.3	0	19	J29	2	33576	Right top board
-18	3	283	N116	HV5	196	1.3	1	19	J28	2	33753	Right top board
-18	4	280	N170	HV5	195	1.3	2	19	J27	2	33811	Right top board
-18	5	277	N346	HV5	194	1.3	3	19	J26	2	33893	Right top board
-17	1	71	N389	HV6	193	1.3	10	18	J35	3	33580	Right top board
-17	2	19	N350	HV6	192	1.3	11	18	J34	3	33600	Right top board
-17	3	118	N423	HV6	191	1.3	12	18	J33	3	33642	Right top board
-17	4	109	N384	HV6	190	1.3	13	18	J32	2	33734	Right top board
-17	5	67	N222	HV6	189	1.3	14	18	J31	2	33899	Right top board
-16	1	24	N257	HV6	188	1.3	5	18	J40	3	33577	Right top board
-16	2	50	N336	HV6	187	1.3	6	18	J39	3	33583	Right top board
-16	3	22	N188	HV6	186	1.3	7	18	J38	3	33634	Right top board
-16	4	156	N449	HV6	185	1.3	8	18	J37	3	33687	Right top board
-16	5	68	N273	HV6	184	1.3	9	18	J36	3	33775	Right top board
-15	1	129	N084	HV17	183	1.3	0	18	J45	3	33583	Right top board
-15	2	33	N378	HV17	182	1.3	1	18	J44	3	33602	Right top board
-15	3	140	N172	HV17	181	1.3	2	18	J43	3	33705	Right top board
-15	4	124	N358	HV17	180	1.3	3	18	J42	3	33800	Right top board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
-15	5	91	N238	HV17	179	1.3	4	18	J41	3	33886	Right top board
-14	1	134	N324	HV17	178	1.3	11	17	J50	4	33579	Right top board
-14	2	25	N143	HV17	177	1.3	12	17	J49	4	33593	Right top board
-14	3	36	N390	HV17	176	1.3	13	17	J48	3	33655	Right top board
-14	4	132	N426	HV17	175	1.3	14	17	J47	3	33780	Right top board
-14	5	151	N397	HV17	174	1.3	15	17	J46	3	33843	Right top board
-13	1	261	N290	HV8	173	1.3	6	17	J55	4	33562	Right top board
-13	2	257	N460blue	HV8	172	1.3	7	17	J54	4	33593	Right top board
-13	3	253	N383	HV8	171	1.3	8	17	J53	4	33734	Right top board
-13	4	258	N189	HV8	170	1.3	9	17	J52	4	33809	Right top board
-13	5	264	N152	HV8	169	1.3	10	17	J51	4	33894	Right top board
-12	1	259	N284	HV8	168	1.9	1	17	J60	4	33460	Right top board
-12	2	260	N469red	HV8	167	1.9	2	17	J59	4	33589	Right top board
-12	3	256	N444	HV8	166	1.9	3	17	J58	4	33722	Right top board
-12	4	255	N063	HV8	165	1.9	4	17	J57	4	33806	Right top board
-12	5	262	N040	HV8	164	1.9	5	17	J56	4	33850	Right top board
-11	1	90	N381	HV9	163	1.9	12	16	J65	5	33498	Right top board
-11	2	139	N234	HV9	162	1.9	13	16	J64	4	33594	Right top board
-11	3	138	N191	HV9	161	1.9	14	16	J63	4	33758	Right top board
-11	4	27	N035	HV9	160	1.9	15	16	J62	4	33838	Right top board
-11	5	87	N024	HV9	159	1.9	0	17	J61	4	33915	Right top board
-10	2	29	N204	HV9	158	1.9	8	16	J69	5	33578	Right top board
-10	3	32	N503	HV9	157	1.9	9	16	J68	5	33717	Right top board
-10	4	92	N325	HV9	156	1.9	10	16	J67	5	33835	Right top board
-10	5	137	N241	HV9	154	1.9	11	16	J66	5	33882	Right top board
-9	2	186	N315	HV10	153	1.9	4	16	J73	5	33462	Right top board
-9	3	189	N060	HV10	152	1.9	5	16	J72	5	33593	Right top board
-9	4	184	N123	HV10	151	1.9	6	16	J71	5	33835	Right top board
-9	5	182	N461	HV10	155	1.9	7	16	J70	5	34083	Right top board
-8	2	187	N496	HV10	148	1.9	0	16	J77	5	33454	Right top board
-8	3	181	N286	HV10	147	1.9	1	16	J76	5	33556	Right top board
-8	4	185	N097	HV10	150	1.9	2	16	J75	5	33662	Right top board
-8	5	172	N343	HV10	149	1.9	3	16	J74	5	33876	Right top board
-7	2	352	N318	HV11	143	1.9	12	15	J81	6	33671	Right top board
-7	3	419	N445	HV11	146	1.9	13	15	J80	5	33919	Right top board
-7	4	171	N484	HV12	145	1.9	14	15	J79	5	33735	Right top board
-7	5	178	N128	HV12	144	1.9	15	15	J78	5	33887	Right top board
-6	2	414	N089	HV11	142	1.9	8	15	J85	6	33590	Right top board

X position	Y position	APD	Pre-amplifier	HV group	LED channel	LED driver	FADC channel	FADC slot	Channel (on the mother board)	JOUT#	Total gain	Mother board (beam view)
-6	3	420	N263	HV11	141	1.9	9	15	J84	6	33830	Right top board
-6	4	188	N272	HV12	140	1.9	10	15	J83	6	33705	Right top board
-6	5	180	N018	HV12	139	1.9	11	15	J82	6	33887	Right top board
-5	2	418	N363	HV11	138	1.9	4	15	J89	6	33554	Right top board
-5	3	409	N303	HV11	137	1.9	5	15	J88	6	33711	Right top board
-5	4	106	N486	HV12	136	1.9	6	15	J87	6	33563	Right top board
-5	5	98	N162	HV12	134	1.9	7	15	J86	6	33875	Right top board
-4	2	410	N117	HV11	133	1.9	0	15	J93	6	33434	Right top board
-4	3	351	N033	HV11	131	1.9	1	15	J92	6	33688	Right top board
-4	4	183	N127	HV12	130	1.9	2	15	J91	6	33478	Right top board
-4	5	176	N171	HV12	129	1.9	3	15	J90	6	33839	Right top board
-3	2	416	N155	HV14	128	1.9	12	14	J97	7	33673	Right top board
-3	3	219	N351	HV13	132	1.9	13	14	J96	6	33447	Right top board
-3	4	197	N320	HV13	125	1.9	14	14	J95	6	33671	Right top board
-3	5	225	N451	HV13	124	1.9	15	14	J94	6	33805	Right top board
-2	2	411	N176	HV14	127	1.9	8	14	J101	7	33689	Right top board
-2	3	194	N300	HV13	126	1.9	9	14	J100	7	33563	Right top board
-2	4	204	N150	HV13	120	1.9	10	14	J99	7	33760	Right top board
-2	5	192	N216	HV13	114	1.9	11	14	J98	7	33884	Right top board
-1	1	415	N480	HV14	123	1.9	3	14	J106	7	33905	Right top board
-1	2	413	N434	HV14	122	1.9	4	14	J105	7	33631	Right top board
-1	3	196	N001	HV13	121	1.9	5	14	J104	7	33591	Right top board
-1	4	203	N502	HV13	115	1.9	6	14	J103	7	33802	Right top board
-1	5	169	N142	HV13	119	1.9	7	14	J102	7	34112	Right top board