

**TCC-EB in USC55**

crate	FED	SM Nb	phi	RCT Crate	TCC FedID	TCC SerialNumber	Firmware vtx2	Firmware vtx2pro	Firmware SLB
S2D02d	613	-4	50,70	0	40	TCC68-V1.2-0013	20100610	20100610	0807
	614	-5	70,90	0	41	TCC68-V1.2-0011	20100610	20100610	0807
	615	-6	90,110	8	42	TCC68-V1.2-0025	20100610	20100610	0807
S2D03d	616	-7	110,130	8	43	TCC68-V1.2-0046	20100610	20100610	0807
	617	-8	130,150	7	44	TCC68-V1.2-0045	20100610	20100610	0807
	618	-9	150,170	7	45	TCC68-V1.2-0051	20100610	20100610	0807
S2D04d	610	-1	-10,10	2	37	TCC68-V1.2-0043	20100610	20100610	0807
	611	-2	10,30	1	38	TCC68-V1.2-0024	20100610	20100610	0807
	612	-3	30,50	1	39	TCC68-V1.2-0017	20100610	20100610	0807
S2D06d	625	-16	-70,-50	3	52	TCC68-V1.2-0006	20100610	20100610	0807
	626	-17	-50,-30	3	53	TCC68-V1.2-0012	20100610	20100610	0807
	627	-18	-30,-10	2	54	TCC68-V1.2-0020	20100610	20100610	0807
S2D07d	619	-10	170,-170	6	46	TCC68-V1.2-0042	20100610	20100610	0807
	620	-11	-170,-150	6	47	TCC68-V1.2-0001	20100610	20100610	0807
	621	-12	-150,-130	5	48	TCC68-V1.2-0009	20100610	20100610	0807
S2D08d	622	-13	-130,-110	5	49	TCC68-V1.2-0021	20100610	20100610	0807
	623	-14	-110,-90	4	50	TCC68-V1.2-0022	20100610	20100610	0807
	624	-15	-90,-70	4	51	TCC68-V1.2-0033	20100610	20100610	0807
S2D02h	631	+4	50,70	9	58	TCC68-V1.2-0019	20100610	20100610	0807
	632	+5	70,90	9	59	TCC68-V1.2-0047	20100610	20100610	0807
	633	+6	90,110	17	60	TCC68-V1.2-0010	20100610	20100610	0807
S2D03h	634	+7	110,130	17	61	TCC68-V1.2-0040	20100610	20100610	0807
	635	+8	130,150	16	62	TCC68-V1.2-0007	20100610	20100610	0807
	636	+9	150,170	16	63	TCC68-V1.2-0039	20100610	20100610	0807
S2D04h	628	+1	-10,10	11	55	TCC68-V1.2-0023	20100610	20100610	0807
	629	+2	10,30	10	56	TCC68-V1.2-0018	20100610	20100610	0807
	630	+3	30,50	10	57	TCC68-V1.2-0041	20100610	20100610	0807
S2D06h	643	+16	-70,-50	12	70	TCC68-V1.2-0053	20100610	20100610	0807
	644	+17	-50,-30	12	71	TCC68-V1.2-0035	20100610	20100610	0807
	645	+18	-30,-10	11	72	TCC68-V1.2-0049	20100610	20100610	0807
S2D07h	637	+10	170,-170	15	64	TCC68-V1.2-0048	20100610	20100610	0807
	638	+11	-170,-150	15	65	TCC68-V1.2-0038	20100610	20100610	0807
	639	+12	-150,-130	14	66	TCC68-V1.2-0014	20100610	20100610	0807
S2D08h	640	+13	-130,-110	14	67	TCC68-V1.2-0050	20100610	20100610	0807
	641	+14	-110,-90	13	68	TCC68-V1.2-0008	20100610	20100610	0807
	642	+15	-90,-70	13	69	TCC68-V1.2-0005	20100610	20100610	0807

**TCC-EB spares**

TCC SerialNumber	Firmware vtx2	Firmware vtx2pro	Firmware SLB	Location	comments
TCC68-V1.2-0040	20120223	20120223	?	B904	Not configuring, not seen by crate controller, was located at P5 EB+7 FED634
TCC68-V1.1-0003	?	?	?	B904	
TCC68-V1.2-0015	20100610	20100610	USC55	USC55 (P5)	possible issue with QPLL,

				hot spare)	unlock at RAMP (should not be used as hot spare)
TCC68-V1.1-0004	?	?	?	B904	not configuring (to be investigated). Now used for JTAG tests (Anatoli)
TCC68-V1.1-0002	2010B867	2010B867	no SLB: HTX boards	H2	

## TCC-EE at USC55

crate	EE sector	phi	RCT Crate	TCC FedID	TCC SerialNumber	slot	Firmware PUSRF	Firmware TPG1	Firmware TPG2	Firmware SLB	comm
S2D021	+9 Phi4 outer	+50,+70	9	76	TCC48-V3.0-0061	2	29060921	09021123	09021123	b807	
fed648	+9 Phi4 inner			94	TCC48-V3.0-0014	3	29060921	09021123	09021123	b807	
	+9 Phi5 outer	+70,+90	9	77	TCC48-V3.0-0035	4	29060921	09021123	09021123	b807	
	+9 Phi5 inner			95	TCC48-V3.0-0030	5	29060921	09021123	09021123	b807	
fed649	+1 Phi6 outer	+90,+110	17	78	TCC48-V3.0-0045	8	29060921	09021123	09021123	b807	
	+1 Phi6 inner			96	TCC48-V3.0-0026	9	29060921	09021123	09021123	b807	
	+1 Phi7 outer	+110,+130	17	79	TCC48-V3.0-0063	10	29060921	09021123	09021123	b807	board 3V3
	+1 Phi7 inner			97	TCC48-V3.0-0062	11	29060921	09021123	09021123	b807	
fed650	+2 Phi8 outer	+130,+150	16	80	TCC48-V3.0-0029	14	29060921	09021123	09021123	b807	
	+2 Phi8 inner			98	TCC48-V3.0-0012	15	29060921	09021123	09021123	b807	
	+2 Phi9 outer	+150,+170	16	81	TCC48-V3.0-0005	16	29060921	09021123	09021123	b807	
	+2 Phi9 inner			99	TCC48-V3.0-0054	17	29060921	09021123	09021123	b807	BC rehe
S2D031	-9 Phi4 outer	+50,+70	0	22	TCC48-V3.0-0027	2	29060921	09021123	09021123	b807	
fed603	-9 Phi4			4	TCC48-V3.0-0072	3	29060921	09021123	09021123	b807	

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	inner										
	-9 Phi5 outer	+70,+90	0	23	TCC48-V3.0-0059	4	29060921	09021123	09021123	b807	
	-9 Phi5 inner			5	TCC48-V3.0-0015	5	29060921	09021123	09021123	b807	
fed604	-1 Phi6 outer	+90,+110	8	24	TCC48-V3.0-0071	8	29060921	09021123	09021123	b807	
	-1 Phi6 inner			6	TCC48-V3.0-0098	9	29060921	09021123	09021123	b807	
	-1 Phi7 outer	+110,+130	8	25	TCC48-V3.0-0031	10	29060921	09021123	09021123	b807	
	-1 Phi7 inner			7	TCC48-V3.0-0048	11	29060921	09021123	09021123	b807	by rehe
fed605	-2 Phi8 outer	+130,+150	7	26	TCC48-V3.0-0053	14	29060921	09021123	09021123	b807	BC rehe
	-2 Phi8 inner			8	TCC48-V3.0-0090	15	29060921	09021123	09021123	b807	BC rehe
	-2 Phi9 outer	+150,+170	7	27	TCC48-V3.0-0057	16	29060921	09021123	09021123	b807	
	-2 Phi9 inner			9	TCC48-V3.0-0096	17	29060921	09021123	09021123	b807	
S2D041	-6 Phi16 outer	-70,-50	3	34	TCC48-V3.0-0095	2	29060921	09021123	09021123	b807	
fed609	-6 Phi16 inner			16	TCC48-V3.0-0088	3	29060921	09021123	09021123	b807	
	-6 Phi17 outer	-50,-30	3	35	TCC48-V3.0-0023	4	29060921	09021123	09021123	b807	
	-6 Phi17 inner			17	TCC48-V3.0-0056	5	29060921	09021123	09021123	b807	
fed601	-7 Phi18 outer	-30,-10	2	36	TCC48-V3.0-0051	8	29060921	09021123	09021123	b807	
	-7 Phi18 inner			18	TCC48-V3.0-0020	9	29060921	09021123	09021123	b807	
	-7 Phi1 outer	-10,+10	2	19	TCC48-V3.0-0091	10	29060921	09021123	09021123	b807	
				1	TCC48-V3.0-0084	11	29060921	09021123	09021123	b807	

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	-7 Phi1 inner											
fed602	-8 Phi2 outer	+10,+30	1	20	TCC48-V3.0-0069	14	29060921	09021123	09021123	b807		
	-8 Phi2 inner			2	TCC48-V3.0-0076	15	29060921	09021123	09021123	b807		
	-8 Phi3 outer	+30,+50	1	21	TCC48-V3.0-0055	16	29060921	09021123	09021123	b807		
	-8 Phi3 inner			3	TCC48-V3.0-0040	17	29060921	09021123	09021123	b807		
S2D061	+6 Phi16 outer	-70,-50	12	88	TCC48-V3.0-0073	2	29060921	09021123	09021123	b807		
fed654	+6 Phi16 inner			106	TCC48-V3.0-0099	3	29060921	09021123	09021123	b807		
	+6 Phi17 outer			-50,-30	12	89	TCC48-V3.0-0033	4	29060921	09021123	09021123	b807
+6 Phi17 inner	107	TCC48-V3.0-0078	5			29060921	09021123	09021123	b807			
fed646	+7 Phi18 outer	-30,-10	11	90	TCC48-V3.0-0060	8	29060921	09021123	09021123	b807	board having SLBs	
	+7 Phi18 inner			108	TCC48-V3.0-0042	9	29060921	09021123	09021123	b807		
	+7 Phi1 outer	-10,+10	11	73	TCC48-V3.0-0067	10	29060921	09021123	09021123	b807		
	+7 Phi1 inner			91	TCC48-V3.0-0028	11	29060921	09021123	09021123	b807		
fed647	+8 Phi2 outer	+10,+30	10	74	TCC48-V3.0-0079	14	29060921	09021123	09021123	b807		
	+8 Phi2 inner			92	TCC48-V3.0-0044	15	29060921	09021123	09021123	b807		
	+8 Phi3 outer	+30,+50	10	75	TCC48-V3.0-0077	16	29060921	09021123	12021022	b807		
	+8 Phi3 inner			93	TCC48-V3.0-0058	17	29060921	09021123	09021123	b807	board gener: VME corrup once	

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S2D071	+3 Phi10 outer	+170,-170	15	82	TCC48-V3.0-0021	2	29060921	09021123	09021123	b807	
fed651	+3 Phi10 inner			100	TCC48-V3.0-0022	3	29060921	09021123	09021123	b807	
	+3 Phi11 outer	-170,-150	15	83	TCC48-V3.0-0064	4	29060921	09021123	09021123	b807	
	+3 Phi11 inner			101	TCC48-V3.0-0100	5	29060921	09021123	09021123	b807	
	+4 Phi12 outer	-150,-130	14	84	TCC48-V3.0-0009	8	29060921	09021123	09021123	b807	
fed652	+4 Phi12 inner			102	TCC48-V3.0-0006	9	29060921	09021123	09021123	b807	
	+4 Phi13 outer	-130,-110	14	85	TCC48-V3.0-0017	10	29060921	09021123	09021123	b807	
	+4 Phi13 inner			103	TCC48-V3.0-0097	11	29060921	09021123	09021123	b807	
	+5 Phi14 outer	-110,-90	13	86	TCC48-V3.0-0013	14	29060921	09021123	09021123	b807	
fed653	+5 Phi14 inner			104	TCC48-V3.0-0010	15	29060921	09021123	09021123	b807	
	+5 Phi15 outer	-90,-70	13	87	TCC48-V3.0-0019	16	29060921	09021123	09021123	b807	
	+5 Phi15 inner			105	TCC48-V3.0-0004	17	29060921	09021123	09021123	b807	
	-3 Phi10 outer	+170,-170	6	28	TCC48-V3.0-0003	2	29060921	09021123	09021123	b807	
fed606	-3 Phi10 inner			10	TCC48-V3.0-0002	3	29060921	09021123	09021123	b807	
	-3 Phi11 outer	-170,-150	6	29	TCC48-V3.0-0001	4	29060921	09021123	09021123	b807	
	-3 Phi11 inner			11	TCC48-V3.0-0018	5	29060921	09021123	09021123	b807	
fed607	-4 Phi12 outer	-150,-130	5	30	TCC48-V3.0-0093	8	29060921	09021123	09021123	b807	
	-4 Phi12 inner			12	TCC48-V3.0-0092	9	29060921	09021123	09021123	b807	

	inner										
	-4 Phi13 outer	-130,-110	5	31	TCC48-V3.0-0087	10	29060921	09021123	09021123	b807	
	-4 Phi13 inner			13	TCC48-V3.0-0094	11	29060921	09021123	09021123	b807	
fed608	-5 Phi14 outer	-110,-90	4	32	TCC48-V3.0-0025	14	29060921	09021123	09021123	b807	
	-5 Phi14 inner			14	TCC48-V3.0-0008	15	29060921	09021123	09021123	b807	
	-5 Phi15 outer	-90,-70	4	33	TCC48-V3.0-0007	16	29060921	09021123	09021123	b807	
	-5 Phi15 inner			15	TCC48-V3.0-0050	17	29060921	09021123	09021123	b807	

### TCC-EE spares

TCC SerialNumber	Firmware PUSRF	Firmware TPG1	Firmware TPG2	Firmware SLB	Location	comments
TCC48-V3.0-0043	29060921	12021022	12021022	b807	904	3 SLB hot spare available
TCC48-V3.0-0074	29060921	12021022	12021022	b807	904	4 SLB hot spare available
TCC48-V3.0-0038	29060921	12021022	12021022	b807	LLR	4 SLB Timing problem on strip 25,31,36
TCC48-V3.0-0041	29060921	12021022	12021022	b807	LLR	3 SLB bad receiver, strip 39 linkerr (no SLB1)
TCC48-V3.0-0068	29060921	12021022	12021022	b807	LLR	(TCC91 EE+7) 4 SLB @LLR
TCC48-V3.0-0024	29060921	09021123	09021123	b807	904	4 SLB missing 2 SLB (to be installed)
TCC48-V3.0-0034	29060921	09021123	09021123	b807	USC55	3 SLB hot spare
TCC48-V3.0-0032	29060921	09021123	09021123	b807	USC55	4 SLB hot spare

### TCC with problems

TCC EB SerialNumber	Comments	Fixed?
TCC68-V1.2-0044	Pb QPLL, PB SLB9 sync 1 bit 7 and SLB9 sync 3 bit 1	No
TCC68-V1.2-0052	PB SLB1 sync 3 bit 0	No
TCC68-V1.2-0040	impossible to program the SLBs	No
TCC68-V1.2-0012	QPLL counter unlocked quite often	Yes
TCC68-V1.2-0033	QPLL counter unlocked quite often	Yes
TCC68-V1.2-0019	QPLL counter unlocked quite often	Yes
TCC68-V1.2-0023	QPLL counter unlocked quite often	Yes
TCC68-V1.2-0002	SLB 4 having mismatch errors	No

TCC EE SerialNumber	Comments	Fixed?
TCC48-V3.0-0016	Permanent SLB TX-Errors	Yes
TCC48-V3.0-0028	Bad clock	Yes
TCC48-V3.0-0047	QPLL lock range outside spec	Yes
TCC48-V3.0-0034	QPLL lock range outside spec	Yes
TCC48-V3.0-0012	QPLL lock range outside spec	Yes
TCC48-V3.0-0024	QPLL lock range outside spec	Yes
TCC48-V3.0-0008	QPLL lock range outside spec	Yes

## Additional useful info

### GCT eta phi mapping

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Topic revision: r94 - 2017-05-15 - AlexandreZabi



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