B300 助听器验配流程

验配软件结构

用户界面层(UI layer)
验配计算层(Fitting calculation layer)
协议层(Communication protocol layer)
底层通讯层(Low level communication layer)

验配软件通常划分为四层结构

用户界面层

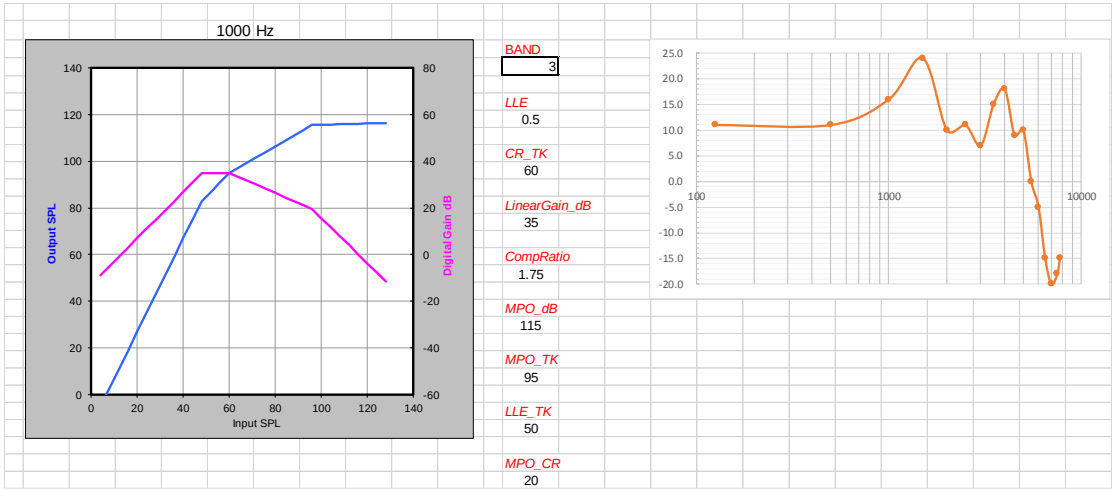
用户界面层主要的功能是提供一个交互界面，使用户可以调整助听器主要参数，包括且不限于：
设备连接及信息读取
系统增益
频响控制
压缩控制（拐点、限幅点）
降噪控制
其它控制

示例：

验配计算层

通过 UI 层确定的参数，根据公式计算出相应的参数表

验配模型示例：



			Calculate Parameters						
Nominal			**Acoustic**			**Digital**			
Input	**Index**		**Input**	**Output**	**Gain**	**Gain**			
dB SPL			*dB SPL*	*dB SPL*	***dB***	***dB***	**Gain**	**Gain**	
Nominal	*GainTable_Index*		*Input_dB_SPL*	*Output_dB_SPL*	*Gain_dB*	*DigitalGain_dB*	*Gain_V_V*	*Gain_Table*	
	0							187797	.data 1877
4.0	**1**		4.0	-5.0	-9.0	-9.0	0.0	187797	.data 1877
8.0	**2**		8.0	3.0	-5.0	-5.0	0.0	297638	.data 2976
12.0	**3**		12.0	11.0	-1.0	-1.0	0.1	471725	.data 4717
16.0	**4**		16.0	19.0	3.0	3.0	0.1	747635	.data 7476
20.0	**5**		20.0	27.0	7.0	7.0	0.1	1184922	.data 1184
24.0	**6**		24.0	35.0	11.0	11.0	0.2	1877974	.data 1877
28.0	**7**		28.0	43.0	15.0	15.0	0.4	2976389	.data 2976
32.0	**8**		32.0	51.0	19.0	19.0	0.6	4717259	.data 4717
36.0	**9**		36.0	59.0	23.0	23.0	0.9	7476352	.data 7476
40.0	**10**		40.0	67.0	27.0	27.0	1.4	11849220	.data 1184
44.0	**11**		44.0	75.0	31.0	31.0	2.2	18779749	.data 1877
48.0	**12**		48.0	83.0	35.0	35.0	3.5	29763897	.data 2976
52.0	**13**		52.0	87.0	35.0	35.0	3.5	29763897	.data 2976
56.0	**14**		56.0	91.0	35.0	35.0	3.5	29763897	.data 2976
60.0	**15**		60.0	95.0	35.0	35.0	3.5	29763897	.data 2976
64.0	**16**		64.0	97.3	33.3	33.3	2.9	24432927	.data 2443
68.0	**17**		68.0	99.6	31.6	31.6	2.4	20056780	.data 2005
72.0	**18**		72.0	101.9	29.9	29.9	2.0	16464439	.data 1646
76.0	**19**		76.0	104.1	28.1	28.1	1.6	13515516	.data 1351
80.0	**20**		80.0	106.4	26.4	26.4	1.3	11094771	.data 1109
84.0	**21**		84.0	108.7	24.7	24.7	1.1	9107602	.data 9107
88.0	**22**		88.0	111.0	23.0	23.0	0.9	7476352	.data 7476
92.0	**23**		92.0	113.3	21.3	21.3	0.7	6137273	.data 6137
96.0	**24**		96.0	115.6	19.6	19.6	0.6	5038035	.data 5038
100.0	**25**		100.0	115.7	15.7	15.7	0.4	3220887	.data 3220
104.0	**26**		104.0	115.8	11.8	11.8	0.2	2059158	.data 2059
108.0	**27**		108.0	115.9	7.9	7.9	0.2	1316449	.data 1316
112.0	**28**		112.0	116.0	4.0	4.0	0.1	841624	.data 8416
116.0	**29**		116.0	116.1	0.1	0.1	0.1	538062	.data 5380
120.0	**30**		120.0	116.3	-3.7	-3.7	0.0	343990	.data 3439
124.0	**31**		124.0	116.4	-7.6	-7.6	0.0	219918	.data 2199
128.0	**32**		128.0	116.5	-11.5	-11.5	0.0	140596	.data 1405
					GainTable_MaxGain	24			
					GainTable_GainExp	4			

	CHANNEL	0	1	2	3	4		5		6								
	Band	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	中心频率(Hz)	125.0	7750.0	500.0	1000.0	1500.0	2000.0	2500.0	3000.0	3500.0	4000.0	4500.0	5000.0	5500.0	6000.0	6500.0	7000.0	7500.0
	频响(dB)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LLE	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	CR_TK(dB)	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	LineGain(dB)	0.0	0.0	35.0	35.0	35.0	0.0	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MPO(dB)	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
	CR_INDEX	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	CompRatio	1.0	1.0	1.8	1.8	1.8	1.0	1.8	1.0	1.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	换能器增益	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
		11.0	-15.0	11.0	16.0	24.0	10.0	11.0	7.0	15.0	18.0	9.0	10.0	0.0	-5.0	-15.0	-20.0	-18.0
Input	Output Martrix																	
4.0	1	-40.0	-40.0	-5.0	-5.0	-5.0	-40.0	-5.0	-40.0	-5.0	-40.0	-40.0	-40.0	-40.0	-40.0	-40.0	-40.0	-40.0
8.0	2	-32.0	-32.0	3.0	3.0	3.0	-32.0	3.0	-32.0	3.0	-32.0	-32.0	-32.0	-32.0	-32.0	-32.0	-32.0	-32.0
12.0	3	-24.0	-24.0	11.0	11.0	11.0	-24.0	11.0	-24.0	11.0	-24.0	-24.0	-24.0	-24.0	-24.0	-24.0	-24.0	-24.0
16.0	4	-16.0	-16.0	19.0	19.0	19.0	-16.0	19.0	-16.0	19.0	-16.0	-16.0	-16.0	-16.0	-16.0	-16.0	-16.0	-16.0
20.0	5	-8.0	-8.0	27.0	27.0	27.0	-8.0	27.0	-8.0	27.0	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0
24.0	6	0.0	0.0	35.0	35.0	35.0	0.0	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28.0	7	8.0	8.0	43.0	43.0	43.0	8.0	43.0	8.0	43.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
32.0	8	16.0	16.0	51.0	51.0	51.0	16.0	51.0	16.0	51.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
36.0	9	24.0	24.0	59.0	59.0	59.0	24.0	59.0	24.0	59.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
40.0	10	32.0	32.0	67.0	67.0	67.0	32.0	67.0	32.0	67.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
44.0	11	40.0	40.0	75.0	75.0	75.0	40.0	75.0	40.0	75.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
48.0	12	48.0	48.0	83.0	83.0	83.0	48.0	83.0	48.0	83.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
52.0	13	52.0	52.0	87.0	87.0	87.0	52.0	87.0	52.0	87.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
56.0	14	56.0	56.0	91.0	91.0	91.0	56.0	91.0	56.0	91.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
60.0	15	60.0	60.0	95.0	95.0	95.0	60.0	95.0	60.0	95.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
64.0	16	64.0	64.0	97.3	97.3	97.3	64.0	97.3	64.0	97.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
68.0	17	68.0	68.0	99.6	99.6	99.6	68.0	99.6	68.0	99.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
72.0	18	72.0	72.0	101.9	101.9	101.9	72.0	101.9	72.0	101.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
76.0	19	76.0	76.0	104.1	104.1	104.1	76.0	104.1	76.0	104.1	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
80.0	20	80.0	80.0	106.4	106.4	106.4	80.0	106.4	80.0	106.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84.0	21	84.0	84.0	108.7	108.7	108.7	84.0	108.7	84.0	108.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
88.0	22	88.0	88.0	111.0	111.0	111.0	88.0	111.0	88.0	111.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
92.0	23	92.0	92.0	113.3	113.3	113.3	92.0	113.3	92.0	113.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
96.0	24	96.0	96.0	115.6	115.6	115.6	96.0	115.6	96.0	115.6	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
100.0	25	96.2	96.2	115.7	115.7	115.7	96.2	115.7	96.2	115.7	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
104.0	26	96.4	96.4	115.8	115.8	115.8	96.4	115.8	96.4	115.8	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
108.0	27	96.6	96.6	115.9	115.9	115.9	96.6	115.9	96.6	115.9	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
112.0	28	96.8	96.8	116.0	116.0	116.0	96.8	116.0	96.8	116.0	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
116.0	29	97.0	97.0	116.1	116.1	116.1	97.0	116.1	97.0	116.1	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
120.0	30	97.2	97.2	116.3	116.3	116.3	97.2	116.3	97.2	116.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
124.0	31	97.4	97.4	116.4	116.4	116.4	97.4	116.4	97.4	116.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
128.0	32	97.6	97.6	116.5	116.5	116.5	97.6	116.5	97.6	116.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
132.0	33	97.8	97.8	116.6	116.6	116.6	97.8	116.6	97.8	116.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
	Acustic Gain																	
4.0	1	-44.0	-44.0	-9.0	-9.0	-9.0	-44.0	-9.0	-44.0	-9.0	-44.0	-44.0	-44.0	-44.0	-44.0	-44.0	-44.0	-44.0
8.0	2	-40.0	-40.0	-5.0	-5.0	-5.0	-40.0	-5.0	-40.0	-5.0	-40.0	-40.0	-40.0	-40.0	-40.0	-40.0	-40.0	-40.0
12.0	3	-36.0	-36.0	-1.0	-1.0	-1.0	-36.0	-1.0	-36.0	-1.0	-36.0	-36.0	-36.0	-36.0	-36.0	-36.0	-36.0	-36.0
16.0	4	-32.0	-32.0	3.0	3.0	3.0	-32.0	3.0	-32.0	3.0	-32.0	-32.0	-32.0	-32.0	-32.0	-32.0	-32.0	-32.0
20.0	5	-28.0	-28.0	7.0	7.0	7.0	-28.0	7.0	-28.0	7.0	-28.0	-28.0	-28.0	-28.0	-28.0	-28.0	-28.0	-28.0
24.0	6	-24.0	-24.0	11.0	11.0	11.0	-24.0	11.0	-24.0	11.0	-24.0	-24.0	-24.0	-24.0	-24.0	-24.0	-24.0	-24.0
28.0	7	-20.0	-20.0	15.0	15.0	15.0	-20.0	15.0	-20.0	15.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
32.0	8	-16.0	-16.0	19.0	19.0	19.0	-16.0	19.0	-16.0	19.0	-16.0	-16.0	-16.0	-16.0	-16.0	-16.0	-16.0	-16.0
36.0	9	-12.0	-12.0	23.0	23.0	23.0	-12.0	23.0	-12.0	23.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0
40.0	10	-8.0	-8.0	27.0	27.0	27.0	-8.0	27.0	-8.0	27.0	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0
44.0	11	-4.0	-4.0	31.0	31.0	31.0	-4.0	31.0	-4.0	31.0	-4.0	-4.0	-4.0	-4.0	-4.0	-4.0	-4.0	-4.0
48.0	12	0.0	0.0	35.0	35.0	35.0	0.0	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.0	13	0.0	0.0	35.0	35.0	35.0	0.0	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56.0	14	0.0	0.0	35.0	35.0	35.0	0.0	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	15	0.0	0.0	35.0	35.0	35.0	0.0	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.0	16	0.0	0.0	33.3	33.3	33.3	0.0	33.3	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68.0	17	0.0	0.0	31.6	31.6	31.6	0.0	31.6	0.0	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.0	18	0.0	0.0	29.9	29.9	29.9	0.0	29.9	0.0	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.0	19	0.0	0.0	28.1	28.1	28.1	0.0	28.1	0.0	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	20	0.0	0.0	26.4	26.4	26.4	0.0	26.4	0.0	26.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.0	21	0.0	0.0	24.7	24.7	24.7	0.0	24.7	0.0	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.0	22	0.0	0.0	23.0	23.0	23.0	0.0	23.0	0.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.0	23	0.0	0.0	21.3	21.3	21.3	0.0	21.3	0.0	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.0	24	0.0	0.0	19.6	19.6	19.6	0.0	19.6	0.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	25	-3.8	-3.8	15.7	15.7	15.7	-3.8	15.7	-3.8	15.7	-3.8	-3.8	-3.8	-3.8	-3.8	-3.8	-3.8	-3.8
104.0	26	-7.6	-7.6	11.8	11.8	11.8	-7.6	11.8	-7.6	11.8	-7.6	-7.6	-7.6	-7.6	-7.6	-7.6	-7.6	-7.6
108.0	27	-11.4	-11.4	7.9	7.9	7.9	-11.4	7.9	-11.4	7.9	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4
112.0	28	-15.2	-15.2	4.0	4.0	4.0	-15.2	4.0	-15.2	4.0	-15.2	-15.2	-15.2	-15.2	-15.2	-15.2	-15.2	-15.2
116.0	29	-19.0	-19.0	0.1	0.1	0.1	-19.0	0.1	-19.0	0.1	-19.0	-19.0	-19.0	-19.0	-19.0	-19.0	-19.0	-19.0
120.0	30	-22.8	-22.8	-3.7	-3.7	-3.7	-22.8	-3.7	-22.8	-3.7	-22.8	-22.8	-22.8	-22.8	-22.8	-22.8	-22.8	-22.8
124.0	31	-26.6	-26.6	-7.6	-7.6	-7.6	-26.6	-7.6	-26.6	-7.6	-26.6	-26.6	-26.6	-26.6	-26.6	-26.6	-26.6	-26.6
128.0	32	-30.4	-30.4	-11.5	-11.5	-11.5	-30.4	-11.5	-30.4	-11.5	-30.4	-30.4	-30.4	-30.4	-30.4	-30.4	-30.4	-30.4
132.0	33	-34.2	-34.2	-15.4	-15.4	-15.4	-34.2	-15.4	-34.2	-15.4	-34.2	-34.2	-34.2	-34.2	-34.2	-34.2	-34.2	-34.2
	Digital Gain																	
4.0	1	-59.0	-59.0	-24.0	-24.0	-24.0	-59.0	-24.0	-59.0	-24.0	-59.0	-59.0	-59.0	-59.0	-59.0	-59.0	-59.0	-59.0
8.0	2	-55.0	-55.0	-20.0	-20.0	-20.0	-55.0	-20.0	-55.0	-20.0	-55.0	-55.0	-55.0	-55.0	-55.0	-55.0	-55.0	-55.0
12.0	3	-51.0	-51.0	-16.0	-16.0	-16.0	-51.0	-16.0	-51.0	-16.0	-51.0	-51.0	-51.0	-51.0	-51.0	-51.0	-51.0	-51.0
16.0	4	-47.0	-47.0	-12.0	-12.0	-12.0	-47.0	-12.0	-47.0	-12.0	-47.0	-47.0	-47.0	-47.0	-47.0	-47.0	-47.0	-47.0
20.0	5	-43.0	-43.0	-8.0	-8.0	-8.0	-43.0	-8.0	-43.0	-8.0	-43.0	-43.0	-43.0	-43.0	-43.0	-43.0	-43.0	-43.0
24.0	6	-39.0	-39.0	-4.0	-4.0	-4.0	-39.0	-4.0	-39.0	-4.0	-39.0	-39.0	-39.0	-39.0	-39.0	-39.0	-39.0	-39.0
28.0	7	-35.0	-35.0	0.0	0.0	0.0	-35.0	0.0	-35.0	0.0	-35.0	-35.0	-35.0	-35.0	-35.0	-35.0	-35.0	-35.0
32.0	8	-31.0	-31.0	4.0	4.0	4.0	-31.0	4.0	-31.0	4.0	-31.0	-31.0	-31.0	-31.0	-31.0	-31.0	-31.0	-31.0
36.0	9	-27.0	-27.0	8.0	8.0	8.0	-27.0	8.0	-27.0	8.0	-27.0	-27.0	-27.0	-27.0	-27.0	-27.0	-27.0	-27.0
40.0	10	-23.0	-23.0	12.0	12.0	12.0	-23.0	12.0	-23.0	12.0	-23.0	-23.0	-23.0	-23.0	-23.0	-23.0	-23.0	-23.0
44.0	11	-19.0	-19.0	16.0	16.0	16.0	-19.0	16.0	-19.0	16.0	-19.0	-19.0	-19.0	-19.0	-19.0	-19.0	-19.0	-19.0
48.0	12	-15.0	-15.0	20.0	20.0	20.0	-15.0	20.0	-15.0	20.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
52.0	13	-15.0	-15.0	20.0	20.0	20.0	-15.0	20.0	-15.0	20.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
56.0	14	-15.0	-15.0	20.0	20.0	20.0	-15.0	20.0	-15.0	20.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
60.0	15	-15.0	-15.0	20.0	20.0	20.0	-15.0	20.0	-15.0	20.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
64.0	16	-15.0	-15.0	18.3	18.3	18.3	-15.0	18.3	-15.0	18.3	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
68.0	17	-15.0	-15.0	16.6	16.6	16.6	-15.0	16.6	-15.0	16.6	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
72.0	18	-15.0	-15.0	14.9	14.9	14.9	-15.0	14.9	-15.0	14.9	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
76.0	19	-15.0	-15.0	13.1	13.1	13.1	-15.0	13.1	-15.0	13.1	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
80.0	20	-15.0	-15.0	11.4	11.4	11.4	-15.0	11.4	-15.0	11.4	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
84.0	21	-15.0	-15.0	9.7	9.7	9.7	-15.0	9.7	-15.0	9.7	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
88.0	22	-15.0	-15.0	8.0	8.0	8.0	-15.0	8.0	-15.0	8.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
92.0	23	-15.0	-15.0	6.3	6.3	6.3	-15.0	6.3	-15.0	6.3	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
96.0	24	-15.0	-15.0	4.6	4.6	4.6	-15.0	4.6	-15.0	4.6	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
100.0	25	-18.8	-18.8	0.7	0.7	0.7	-18.8	0.7	-18.8	0.7	-18.8	-18.8	-18.8	-18.8	-18.8	-18.8	-18.8	-18.8
104.0	26	-22.6	-22.6	-3.2	-3.2	-3.2	-22.6	-3.2	-22.6	-3.2	-22.6	-22.6	-22.6	-22.6	-22.6	-22.6	-22.6	-22.6
108.0	27	-26.4	-26.4	-7.1	-7.1	-7.1	-26.4	-7.1	-26.4	-7.1	-26.4	-26.4	-26.4	-26.4	-26.4	-26.4	-26.4	-26.4
112.0	28	-30.2	-30.2	-11.0	-11.0	-11.0	-30.2	-11.0	-30.2	-11.0	-30.2	-30.2	-30.2	-30.2	-30.2	-30.2	-30.2	-30.2
116.0	29	-34.0	-34.0	-14.9	-14.9	-14.9	-34.0	-14.9	-34.0	-14.9	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0
120.0	30	-37.8	-37.8	-18.7	-18.7	-18.7	-37.8	-18.7	-37.8	-18.7	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8
124.0	31	-41.6	-41.6	-22.6	-22.6	-22.6	-41.6	-22.6	-41.6	-22.6	-41.6	-41.6	-41.6	-41.6	-41.6	-41.6	-41.6	-41.6
128.0	32	-45.4	-45.4	-26.5	-26.5	-26.5	-45.4	-26.5	-45.4	-26.5	-45.4	-45.4	-45.4	-45.4	-45.4	-45.4	-45.4	-45.4
132.0	33	-49.2	-49.2	-30.4	-30.4	-30.4	-49.2	-30.4	-49.2	-30.4	-49.2	-49.2	-49.2	-49.2	-49.2	-49.2	-49.2	-49.2
	VV Gain																	
	1	588.3	588.3	33080.3	33080.3	33080.3	588.3	33080.3	588.3	33080.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3
	2	932.3	932.3	52428.8	52428.8	52428.8	932.3	52428.8	932.3	52428.8	932.3	932.3	932.3	932.3	932.3	932.3	932.3	932.3
	3	1477.6	1477.6	83094.0	83094.0	83094.0	1477.6	83094.0	1477.6	83094.0	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6
	4	2341.9	2341.9	131695.2	131695.2	131695.2	2341.9	131695.2	2341.9	131695.2	2341.9	2341.9	2341.9	2341.9	2341.9	2341.9	2341.9	2341.9
	5	3711.7	3711.7	208722.8	208722.8	208722.8	3711.7	208722.8	3711.7	208722.8	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7
	6	5882.6	5882.6	330803.3	330803.3	330803.3	5882.6	330803.3	5882.6	330803.3	5882.6	5882.6	5882.6	5882.6	5882.6	5882.6	5882.6	5882.6
	7	9323.3	9323.3	524287.9	524287.9	524287.9	9323.3	524287.9	9323.3	524287.9	9323.3	9323.3	9323.3	9323.3	9323.3	9323.3	9323.3	9323.3
	8	14776.4	14776.4	830940.4	830940.4	830940.4	14776.4	830940.4	14776.4	830940.4	14776.4	14776.4	14776.4	14776.4	14776.4	14776.4	14776.4	14776.4
	9	23419.1	23419.1	########	########	########	23419.1	########	23419.1	########	23419.1	23419.1	23419.1	23419.1	23419.1	23419.1	23419.1	23419.1
	10	37116.7	37116.7	########	########	########	37116.7	########	37116.7	########	37116.7	37116.7	37116.7	37116.7	37116.7	37116.7	37116.7	37116.7
	11	58826.1	58826.1	########	########	########	58826.1	########	58826.1	########	58826.1	58826.1	58826.1	58826.1	58826.1	58826.1	58826.1	58826.1
	12	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	13	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	14	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	15	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	16	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	17	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	18	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	19	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	20	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	21	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	22	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	23	93233.0	93233.0	########	########	########	93233.0	########	93233.0	########	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	24	93233.0	93233.0	887444.7	887444.7	887444.7	93233.0	887444.7	93233.0	887444.7	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0	93233.0
	25	60196.3	60196.3	567355.9	567355.9	567355.9	60196.3	567355.9	60196.3	567355.9	60196.3	60196.3	60196.3	60196.3	60196.3	60196.3	60196.3	60196.3
	26	38866.0	38866.0	362718.6	362718.6	362718.6	38866.0	362718.6	38866.0	362718.6	38866.0	38866.0	38866.0	38866.0	38866.0	38866.0	38866.0	38866.0
	27	25094.0	25094.0	231891.1	231891.1	231891.1	25094.0	231891.1	25094.0	231891.1	25094.0	25094.0	25094.0	25094.0	25094.0	25094.0	25094.0	25094.0
	28	16202.0	16202.0	148251.3	148251.3	148251.3	16202.0	148251.3	16202.0	148251.3	16202.0	16202.0	16202.0	16202.0	16202.0	16202.0	16202.0	16202.0
	29	10460.9	10460.9	94779.1	94779.1	94779.1	10460.9	94779.1	10460.9	94779.1	10460.9	10460.9	10460.9	10460.9	10460.9	10460.9	10460.9	10460.9
	30	6754.1	6754.1	60593.6	60593.6	60593.6	6754.1	60593.6	6754.1	60593.6	6754.1	6754.1	6754.1	6754.1	6754.1	6754.1	6754.1	6754.1
	31	4360.8	4360.8	38738.4	38738.4	38738.4	4360.8	38738.4	4360.8	38738.4	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
	32	2815.6	2815.6	24766.0	24766.0	24766.0	2815.6	24766.0	2815.6	24766.0	2815.6	2815.6	2815.6	2815.6	2815.6	2815.6	2815.6	2815.6
	33	1817.9	1817.9	15833.2	15833.2	15833.2	1817.9	15833.2	1817.9	15833.2	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9
	Check Gain																	
	1	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	3	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	4	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	5	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	6	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	7	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	8	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	9	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	10	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	11	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	12	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	13	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	14	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	15	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	16	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	17	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	18	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	19	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	20	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	21	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	22	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	23	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	24	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	25	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	26	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	27	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	28	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	29	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	30	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	31	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	32	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	33	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

协议层

协议层主要负值与 B300 通讯的各种指令，比如 DSP 状态获取、DSP 停止/启动运行、静音/反静音、内存读取/写入、EEPROM 相关操作等等，将底层 I2C 指令打包成 API 协议。

底层通讯层

与 B300 通讯的各种 I2C 指令的实现，包括并不限于更改 PC 指针、更改寄存器、获取中断位置等等

综述

综上所述，验配的过程实际上就是将用户调整的结果转换成 I2C 指令的过程，其中牵涉到指令的时序、数据校验、状态配置等等问题，技术细节不述。OTC 升级的过程与验配类似，所不同在于验配只更改数据内存，程序内存保持不变，而 OTC 将更改数据内存和程序内存。