

DBTR20A---VOICE OTP DEMO BOARD USER MANUAL

For aP8942A (42") / aP8921A (21") / aP8910A (10")

	Durations	PHRASE		TG - pin	PDIP	SOP	DIE	VCC
		Key mode	CPU mode					
aP8942A	42"	32	32	8	20	20	YES	2.6 ~ 5.0V
aP8921A	21"	12	12	4	16	16	YES	2.6 ~ 5.0V
aP8910A	10"	12	12	4	16	16	YES	2.6 ~ 5.0V

1. Part no. : **AP89xx_DBTR20A**
2. VCC = 2.6V ~ 5.0V
3. Key mode : S8~S1
4. CPU mode : S5~S1 + SBT
5. Sampling rate can adjust
6. support DAC & PWM output
7. Out1 & Out2 pin output

PS : CPU Mode or KEY Mode by compile option

Sampling rate	Rosc	Sampling rate	Rosc
5.4 K Hz	400K	10.3 K Hz	200K
5.9 K Hz	370K	11.0 K Hz	180K
6.3 K Hz	350K	11.9 K Hz	170K
6.5 K Hz	330K	13.8 K Hz	150K
7.0 K Hz	300K	16.5 K Hz	120K
7.6 K Hz	280K	19.3 K Hz	100K
8.5 K Hz	250K	20.5 K Hz	91K
9.5 K Hz	220K	22.4 K Hz	82K

**The Table is only for reference

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	aP8942A --- KEY Mode								aP8942A ---CPU Mode				
Voice Group	S8	S7	S6	S5	S4	S3	S2	S1	S5	S4	S3	S2	S1
1	0	0	0	0	0	0	0	1	0	0	0	0	0
2	0	0	0	0	0	0	1	0	0	0	0	0	1
3	0	0	0	0	0	1	0	0	0	0	0	1	0
4	0	0	0	0	1	0	0	0	0	0	0	1	1
5	0	0	0	1	0	0	0	0	0	0	1	0	0
6	0	0	1	0	0	0	0	0	0	0	1	0	1
7	0	1	0	0	0	0	0	0	0	0	1	1	0
8	1	0	0	0	0	0	0	0	0	0	1	1	1
9	0	0	0	0	0	0	1	1	0	1	0	0	0
10	0	0	0	0	0	1	1	0	0	1	0	0	1
11	0	0	0	0	1	1	0	0	0	1	0	1	0
12	0	0	0	1	1	0	0	0	0	1	0	1	1
13	0	0	1	1	0	0	0	0	0	1	1	0	0
14	0	1	1	0	0	0	0	0	0	1	1	0	1
15	1	1	0	0	0	0	0	0	0	1	1	1	0
16	1	0	0	0	0	0	0	1	0	1	1	1	1
17	0	0	0	0	0	1	1	1	1	0	0	0	0
18	0	0	0	0	1	1	1	0	1	0	0	0	1
19	0	0	0	1	1	1	0	0	1	0	0	1	0
20	0	0	1	1	1	0	0	0	1	0	0	1	1
21	0	1	1	1	0	0	0	0	1	0	1	0	0
22	1	1	1	0	0	0	0	0	1	0	1	0	1
23	1	1	0	0	0	0	0	1	1	0	1	1	0
24	1	0	0	0	0	0	1	1	1	0	1	1	1
25	0	0	0	0	1	1	1	1	1	1	0	0	0
26	0	0	0	1	1	1	1	0	1	1	0	0	1
27	0	0	1	1	1	1	0	0	1	1	0	1	0
28	0	1	1	1	1	0	0	0	1	1	0	1	1
29	1	1	1	1	0	0	0	0	1	1	1	0	0
30	1	1	1	0	0	0	0	1	1	1	1	0	1
31	1	1	0	0	0	0	1	1	1	1	1	1	0
32	1	0	0	0	0	1	1	1	1	1	1	1	1

	aP8921A/10A --- KEY Mode				aP8921A/10A ---CPU Mode			
Voice Group	S4	S3	S2	S1	S4	S3	S2	S1
1	0	0	0	1	0	0	0	1
2	0	0	1	0	0	0	1	0
3	0	1	0	0	0	1	0	0
4	1	0	0	0	1	0	0	0
5	0	0	1	1	0	0	1	1
6	0	1	1	0	0	1	1	0
7	1	1	0	0	1	1	0	0
8	1	0	0	1	1	0	0	1
9	0	1	1	1	0	1	1	1
10	1	1	1	0	1	1	1	0
11	1	1	0	1	1	1	0	1
12	1	0	1	1	1	0	1	1