

TAS6511 Memory Map — Book 0x8C

SUB ADDRESS	PAGE	REGISTER NAME	NUMBER OF BYTES/FORMAT	DEFAULT VALUE	DESCRIPTION
VOLUME					
0x04	0x22	Volume Gain	4 / 3.21	0x00200000	Channel Volume coefficient
0x08	0x22	Softening Filter Alpha	4 / 1.23	0x0000E2C4	Volume Time constant
PVDD TRACKING					
0x14	0x22	Attack Rate	4 / 1.23	0x00000F05	AGL Attack Time constant
0x18	0x22	Release Rate	4 / 1.23	0x000000AF	AGL Release Time constant
0x1C	0x22	Softening Filter Alpha	4 / 1.23	0x00400000	AGL Energy Time constant
0x20	0x22	Softening Filter Omega	4 / 1.23	0x00400000	AGL Omega Time constant
0x24	0x22	Threshold	4 / 1.23	0x007FFFFFFF	AGL Threshold linear
0x28	0x22	Volt Scale	4 / 5.19	0x00080000	PVDD Volt Scale linear
0x30	0x22	Softening Filter Alpha	4 / 1.23	0x007FFFFFFF	PVDD Energy Time constant
SPEAKER GUARD					
0x38	0x22	Threshold	4 / 1.23	0x00080000	Speaker Guard Threshold linear
CLIP DETECT					
0x4C	0x22	Clip Mask RTLDG Hold	4 / 24.0	0x0000BB80	Clip Mask RTLDG Hold Time constant
0x50	0x22	Threshold	4 / 2.22	0x003FFFFE	Clip Detection Threshold linear
COMPENSATION EQ FLAG					
0x5C	0x22	Enable Compensation EQ	4 / 24.0	0x00000000	Compensation EQ flag
0x60	0x22	BQ 1 B0	4 / 2.22	0x00400000	Compensation BQ coefficient
0x64	0x22	BQ 1 B1	4 / 2.22	0x00000000	Compensation BQ coefficient
0x68	0x22	BQ 1 B2	4 / 2.22	0x00000000	Compensation BQ coefficient
0x6C	0x22	BQ 1 A1	4 / 2.22	0x00000000	Compensation BQ coefficient
0x70	0x22	BQ 1 A2	4 / 2.22	0x00000000	Compensation BQ coefficient
RTLDG					
0x7C	0x22	Vpredict Delay	4 / 24.0	0x00000016	Vpredict Delay Samples
0x80	0x22	Isense Gain	4 / 9.15	0x00020000	Isense Gain coefficient
0x84	0x22	Vsense Gain	4 / 9.15	0x00008000	Vsense Gain coefficient
0x88	0x22	OL Threshold	4 / 1.23	0x00120000	RTLDG Open Load coefficient
0x8C	0x22	SL Threshold	4 / 1.23	0x0000B000	RTLDG Short Load coefficient
0x94	0x22	OLSL Time Constant	4 / 1.23	0x000006D4	RTLDG OLSL time constant
0x98	0x22	OLSL Time Constant	4 / 1.23	0x0000015E	RTLDG OLSL time constant
0x9C	0x22	Re Init	4 / 1.23	0x00070000	RTLDG Re Init value

0xA4	0x22	OLSL Time Constant	4 / 1.23	0x00000831	RTLdG OLSL time constant
0xA8	0x22	OLSL Time Constant	4 / 1.23	0x00000FA0	RTLdG OLSL time constant
0xC0	0x22	Enable Low Latency Path Unmute	4 / 24.0	0x00000000	Low Latency Path Unmute flag
PILOT TONE					
0xC4	0x22	Pilot Tone Alpha	4 / 1.23	0x0000E2C4	Pilot Tone Smooth time constant
0xC8	0x22	Pilot Tone Ramp Down	4 / 1.23	0x003E2F27	Pilot Tone ramp down time constant
0xCC	0x22	48k Fs Pilot Tone Init1	4 / 1.23	0x005A6A60	48k Fs Pilot Tone Init1 coefficient
0xD0	0x22	48k Fs Pilot Tone Init2	4 / 1.23	0x003FFFFE	48k Fs Pilot Tone Init2 coefficient
0xD4	0x22	48k Fs Pilot Tone Init3	4 / 1.23	0x00001F3F	48k Fs Pilot Tone Init3 coefficient
0xD8	0x22	48k Fs Pilot Tone Init4	4 / 1.23	0x00020000	48k Fs Pilot Tone Init4 coefficient
0xDC	0x22	48k Fs Pilot Tone Init5	4 / 1.23	0x00000CDE	48k Fs Pilot Tone Init5 coefficient
0xE0	0x22	48k Fs Pilot Tone Init6	4 / 1.23	0x00000000	48k Fs Pilot Tone Init6 coefficient
0xE4	0x22	96k Fs Pilot Tone Init1	4 / 1.23	0x00569A98	96k Fs Pilot Tone Init1 coefficient
0xE8	0x22	96k Fs Pilot Tone Init2	4 / 1.23	0x003FFFFFFF	96k Fs Pilot Tone Init2 coefficient
0xEC	0x22	96k Fs Pilot Tone Init3	4 / 1.23	0x00003E7F	96k Fs Pilot Tone Init3 coefficient
0xF0	0x22	96k Fs Pilot Tone Init4	4 / 1.23	0x00020000	96k Fs Pilot Tone Init4 coefficient
0xF4	0x22	96k Fs Pilot Tone Init5	4 / 1.23	0x0000066F	96k Fs Pilot Tone Init5 coefficient
0xF8	0x22	96k Fs Pilot Tone Init6	4 / 1.23	0x00000000	96k Fs Pilot Tone Init6 coefficient
RTLdG FILTER					
0x18	0x23	48k Fs RTLdG BQ B0	4 / 1.23	0x00000237	RTLdG BQ coefficient
0x1C	0x23	48k Fs RTLdG BQ B1	4 / 1.23	0x00000000	RTLdG BQ coefficient
0x20	0x23	48k Fs RTLdG BQ B2	4 / 1.23	0x00FFFD C9	RTLdG BQ coefficient
0x24	0x23	48k Fs RTLdG BQ A1	4 / 1.23	0x007FFD C6	RTLdG BQ coefficient
0x28	0x23	48k Fs RTLdG BQ A2	4 / 1.23	0x00C00237	RTLdG BQ coefficient
0x2C	0x23	48k Fs RTLdG BQ B0	4 / 1.23	0x004BB676	RTLdG BQ coefficient
0x30	0x23	48k Fs RTLdG BQ B1	4 / 1.23	0x00000000	RTLdG BQ coefficient
0x34	0x23	48k Fs RTLdG BQ B2	4 / 1.23	0x00B4498A	RTLdG BQ coefficient
0x38	0x23	48k Fs RTLdG BQ A1	4 / 1.23	0x00F11B00	RTLdG BQ coefficient
0x3C	0x23	48k Fs RTLdG BQ A2	4 / 1.23	0x004BB676	RTLdG BQ coefficient
0x40	0x23	96k Fs RTLdG BQ B0	4 / 1.23	0x0000011C	RTLdG BQ coefficient
0x44	0x23	96k Fs RTLdG BQ B1	4 / 1.23	0x00000000	RTLdG BQ coefficient
0x48	0x23	96k Fs RTLdG BQ B2	4 / 1.23	0x00FFFE E4	RTLdG BQ coefficient
0x4C	0x23	96k Fs RTLdG BQ A1	4 / 1.23	0x007FFE E4	RTLdG BQ coefficient
0x50	0x23	96k Fs RTLdG BQ A2	4 / 1.23	0x00C0011C	RTLdG BQ coefficient
0x54	0x23	96k Fs RTLdG BQ B0	4 / 1.23	0x00A8521C	RTLdG BQ coefficient
0x58	0x23	96k Fs RTLdG BQ B1	4 / 1.23	0x00000000	RTLdG BQ coefficient

0x5C	0x23	96k Fs RTLDG BQ B2	4 / 1.23	0x0057ADE4	RTLDG BQ coefficient
0x60	0x23	96k Fs RTLDG BQ A1	4 / 1.23	0x00A6E0B8	RTLDG BQ coefficient
0x64	0x23	96k Fs RTLDG BQ A2	4 / 1.23	0x00A8521C	RTLDG BQ coefficient
0xE8	0x23	S2PS2G duration	4 / 24.0	0x0000BB80	RTLDG S2PS2G duration coefficient
0xEC	0x23	S2PS2G Time Constant	4 / 1.23	0x0000015E	RTLDG S2PS2G time constant coefficient
0xF0	0x23	S2P threshold	4 / 1.23	0x00180000	RTLDG short to power threshold coefficient
0xF4	0x23	S2G threshold	4 / 1.23	0x00180000	RTLDG short to ground threshold coefficient
0xFC	0x23	S2PS2G Time Constant	4 / 1.23	0x00000419	RTLDG S2PS2G time constant coefficient
0x04	0x24	S2PS2G Time Constant	4 / 1.23	0x00001F40	RTLDG S2PS2G time constant coefficient
THERMAL FOLDBACK					
0x3C	0x24	Threshold	4 / 1.23	0x001E0000	Thermal Foldback Threshold linear
0x40	0x24	Hold timer	4 / 24.0	0x0000BB80	Thermal Foldback Hold Time constant
0x44	0x24	Attenuation Ratio	4 / 1.23	0x0007FCC1	Thermal Foldback Attenuation ratio
0x48	0x24	Max Attenuation Gain	4 / 1.23	0x002026F3	Thermal Foldback Max Attenuation gain
0x4C	0x24	Attack Time	4 / 1.23	0x007E88E8	Thermal Foldback Attack Time constant
0x50	0x24	Release Time	4 / 2.22	0x004012E0	Thermal Foldback Release Time constant
0x54	0x24	Energy Time	4 / 1.23	0x00004432	Thermal Foldback Energy Time constant
HYBRID MODULATION					
0x68	0x24	Energy Time	4 / 1.23	0x00100000	Hybrid Energy Time constant
0x74	0x24	Attack Timer	4 / 1.23	0x00000007	Hybrid Attack Time constant
0x78	0x24	Release Timer	4 / 1.23	0x00000800	Hybrid Release Time constant
0x8C	0x24	level 5 duty	4 / 1.23	0x00000010	Hybrid level 5 duty value
0x90	0x24	level 4 duty	4 / 1.23	0x00000008	Hybrid level 4 duty value
0x94	0x24	level 3 duty	4 / 1.23	0x00000004	Hybrid level 3 duty value
0x98	0x24	level 2 duty	4 / 1.23	0x00000002	Hybrid level 2 duty value
0x9C	0x24	level 1 duty	4 / 1.23	0x00000001	Hybrid level 1 duty value