

**TAS6684 Memory Map — Book 0x8C(CH1/2) & Book 0x8D(CH3/4)**

SUB ADDRESS	PAGE	REGISTER NAME	NUMBER OF BYTES/FORMAT	DEFAULT VALUE	DESCRIPTION
<b>VOLUME</b>					
0x28	0x01	Softening Filter Alpha	4 / 1.31	0x00E2C46B	Volume Time constant
0x2C	0x01	CH1/3 Volume	4 / 9.23	0x00800000	Channel 1/3 Volume coefficient
0x30	0x01	CH2/4 Volume	4 / 9.23	0x00800000	Channel 2/4 Volume coefficient
<b>CLIP DETECT</b>					
0x50	0x01	Clip Detection Threshold	4 / 2.30	0x3FFFFFFE	Clip Detection Threshold coefficient
<b>LOW LATENCY</b>					
0x5C	0x01	Enable Low Latency Path	4 / 32.0	0x00000000	Low Latency Path flag
0x60	0x01	CH1/3 Low Latency Path gain	4 / 9.23	0x00800000	CH1/3 Low Latency Path gain coefficient
0x64	0x01	CH2/4 Low Latency Path gain	4 / 9.23	0x00800000	CH2/4 Low Latency Path gain coefficient
<b>RTLDDG</b>					
0x68	0x01	Enable 96k Fs RTLDDG	4 / 32.0	0x00000000	96k Fs RTLDDG flag
<b>PVDD TRACKING</b>					
0x70	0x01	Softening Filter Alpha	4 / 1.31	0x20000000	PVDD Energy Time constant
0x74	0x01	PVDD Tracking Threshold	4 / 1.31	0x40000000	Threshold linear
0x78	0x01	Volt scale	4 / 9.23	0x00880000	Volt scale linear
0x7C	0x01	Attack Rate	4 / 1.31	0x000369D0	AGL Attack Time constant
0x80	0x01	Release Rate	4 / 1.31	0x00005762	AGL Release Time constant
0x84	0x01	Softening Filter Alpha	4 / 1.31	0x051EB852	AGL Energy Time constant
0x88	0x01	Softening Filter Omega	4 / 1.31	0x7AE147AE	AGL Omega Time constant
<b>COMPENSATION EQ</b>					
0x94	0x01	Enable Compensation EQ	4 / 32.0	0x00000000	Compensation EQ flag
0x98	0x01	CH1/3 Compensation BQ 1 B0	4 / 5.27	0x08000000	Channel 1/3 Compensation BQ coefficient
0x9C	0x01	CH1/3 Compensation BQ 1 B1	4 / 5.27	0x00000000	Channel 1/3 Compensation BQ coefficient
0xA0	0x01	CH1/3 Compensation BQ 1 B2	4 / 5.27	0x00000000	Channel 1/3 Compensation BQ coefficient
0xA4	0x01	CH1/3 Compensation BQ 1 A1	4 / 5.27	0x00000000	Channel 1/3 Compensation BQ coefficient
0xA8	0x01	CH1/3 Compensation BQ 1 A2	4 / 5.27	0x00000000	Channel 1/3 Compensation BQ coefficient
0xAC	0x01	CH2/4 Compensation BQ 1 B0	4 / 5.27	0x08000000	Channel 2/4 Compensation BQ coefficient
0xB0	0x01	CH2/4 Compensation BQ 1 B1	4 / 5.27	0x00000000	Channel 2/4 Compensation BQ coefficient
0xB4	0x01	CH2/4 Compensation	4 / 5.27	0x00000000	Channel 2/4 Compensation BQ coefficient

		BQ 1 B2			
0xB8	0x01	CH2/4 Compensation BQ 1 A1	4 / 5.27	0x00000000	Channel 2/4 Compensation BQ coefficient
0xBC	0x01	CH2/4 Compensation BQ 1 A2	4 / 5.27	0x00000000	Channel 2/4 Compensation BQ coefficient
<b>CLASSH</b>					
0xC4	0x01	CH1/3 ClassH Delay	4 / 32.0	0x000000F0	Channel 1/3 ClassH Delay Samples
0xC8	0x01	CH2/4 ClassH Delay	4 / 32.0	0x000000F0	Channel 2/4 ClassH Delay Samples
0xD0	0x01	Max Detect Window	4 / 32.0	0x00000064	Max Detect Window Samples
0xD4	0x01	Peak Hold	4 / 32.0	0x000003C0	Peak Hold Samples
0xD8	0x01	Peak Detect Offset	4 / 1.31	0x7EB851EB	Peak Detect Offset linear
0xDC	0x01	Peak Decay	4 / 1.31	0x7FFCB923	Peak Decay linear
0xE0	0x01	Peak Smooth	4 / 1.31	0x053947A6	Peak Smooth Time constant
0xE4	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0xE8	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0xEC	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0xF0	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0xF4	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0xF8	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0xFC	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x04	0x02	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x08	0x02	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x0C	0x02	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x10	0x02	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x14	0x02	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x18	0x02	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x1C	0x02	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x20	0x02	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x24	0x02	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
<b>IO PATH</b>					
0x44	0x02	Disable Isense Path	4 / 32.0	0x00000000	Isense path flag
0x48	0x02	Disable AUX Path	4 / 32.0	0x00000001	AUX path flag
0x4C	0x02	Disable SDOOUT Path	4 / 32.0	0x00000000	SDOOUT path flag
<b>RTLDTG</b>					
0x58	0x02	48k Fs Pilot Tone Init1	4 / 1.31	0x00000000	48k Fs Pilot Tone Init1 coefficient
0x5C	0x02	48k Fs Pilot Tone Init2	4 / 1.31	0x00000000	48k Fs Pilot Tone Init2 coefficient
0x60	0x02	48k Fs Pilot Tone Init3	4 / 1.31	0x00000000	48k Fs Pilot Tone Init3 coefficient
0x64	0x02	96k Fs Pilot Tone Init1	4 / 1.31	0x00000000	96k Fs Pilot Tone Init1 coefficient
0x68	0x02	96k Fs Pilot Tone Init2	4 / 1.31	0x00000000	96k Fs Pilot Tone Init2 coefficient
0x6C	0x02	96k Fs Pilot Tone Init3	4 / 1.31	0x00000000	96k Fs Pilot Tone Init3 coefficient
0x28	0x03	48k Fs RTLDTG BQ B0	4 / 5.27	0x00000000	RTLDTG BQ coefficient
0x2C	0x03	48k Fs RTLDTG BQ B1	4 / 5.27	0x00000000	RTLDTG BQ coefficient
0x30	0x03	48k Fs RTLDTG BQ B2	4 / 5.27	0x00000000	RTLDTG BQ coefficient

0x34	0x03	48k Fs RTLDG BQ A1	4 / 5.27	0x00000000	RTLDG BQ coefficient
0x38	0x03	48k Fs RTLDG BQ A2	4 / 5.27	0x00000000	RTLDG BQ coefficient
0x3C	0x03	96k Fs RTLDG BQ B0	4 / 5.27	0x00000000	RTLDG BQ coefficient
0x40	0x03	96k Fs RTLDG BQ B1	4 / 5.27	0x00000000	RTLDG BQ coefficient
0x44	0x03	96k Fs RTLDG BQ B2	4 / 5.27	0x00000000	RTLDG BQ coefficient
0x48	0x03	96k Fs RTLDG BQ A1	4 / 5.27	0x00000000	RTLDG BQ coefficient
0x4C	0x03	96k Fs RTLDG BQ A2	4 / 5.27	0x00000000	RTLDG BQ coefficient
0x54	0x03	CH1/3 Vsense Delay	4 / 32.0	0x00000018	Channel 1/3 Vsense Delay Samples
0x58	0x03	CH2/4 Vsense Delay	4 / 32.0	0x00000018	Channel 2/4 Vsense Delay Samples
0x5C	0x03	CH1/3 Isense gain	4 / 9.23	0x00800000	Channel 1/3 Isense coefficient
0x60	0x03	CH2/4 Isense gain	4 / 9.23	0x00800000	Channel 2/4 Isense coefficient
0x64	0x03	CH1/3 Vsense gain	4 / 9.23	0x00800000	Channel 1/3 Vsense coefficient
0x68	0x03	CH2/4 Vsense gain	4 / 9.23	0x00800000	Channel 2/4 Vsense coefficient
0x6C	0x03	OL Threshold	4 / 1.31	0x1D000000	RTLDG Open Load coefficient
0x70	0x03	SL Threshold	4 / 1.31	0x00C50000	RTLDG Short Load coefficient
0x74	0x03	Pilot Tone gain	4 / 1.31	0x00200000	Pilot Tone gain coefficient
0x78	0x03	Pilot Tone Alpha	4 / 1.31	0x0071949A	Pilot Tone ramp time constant
0x7C	0x03	OLSL Time Constant	4 / 1.31	0x00000000	RTLDG OLSL time constant
0x80	0x03	OLSL Time Constant	4 / 1.31	0x00000000	RTLDG OLSL time constant
0x84	0x03	OLSL Time Constant	4 / 1.31	0x00000000	RTLDG OLSL time constant
0x88	0x03	Re Init	4 / 1.31	0x06000000	RTLDG Re Init value
0x8C	0x03	96k Fs RTLDG Vpredict	4 / 1.31	0x00028000	96k Fs RTLDG Vpredict coefficient
0x98	0x03	S2P threshold	4 / 1.31	0x07000000	RTLDG short to power threshold coefficient
0x9C	0x03	S2G threshold	4 / 1.31	0x07000000	RTLDG short to ground threshold coefficient
0xA0	0x03	S2PS2G duration	4 / 32.0	0x00005DC0	RTLDG S2PS2G duration coefficient
0xA4	0x03	S2PS2G Time Constant	4 / 1.31	0x00000000	RTLDG S2PS2G time constant coefficient
0xA8	0x03	S2PS2G Time Constant	4 / 1.31	0x00000000	RTLDG S2PS2G time constant coefficient
0xAC	0x03	S2PS2G Time Constant	4 / 1.31	0x00000000	RTLDG S2PS2G time constant coefficient
<b>THERMAL FOLDBACK</b>					
0xB8	0x03	CH1/3 TFB Hold	4 / 32.0	0x0000BB80	CH1/3 Thermal Foldback Hold Time constant
0xBC	0x03	CH1/3 TFB Release	4 / 1.31	0x40000100	CH1/3 Thermal Foldback Release Time constant
0xC4	0x03	CH1/3 TFB Attack	4 / 1.31	0x7E88E866	CH1/3 Thermal Foldback Attack Time constant
0xCC	0x03	CH2/4 TFB Hold	4 / 32.0	0x0000BB80	CH2/4 Thermal Foldback Hold Time constant
0xD0	0x03	CH2/4 TFB Release	4 / 1.31	0x40000100	CH2/4 Thermal Foldback Release Time constant
0xD8	0x03	CH2/4 TFB Attack	4 / 1.31	0x7E88E866	CH2/4 Thermal Foldback Attack Time constant
<b>HYBRID MODULATION</b>					
0x10	0x04	Softening Filter Alpha	4 / 1.31	0x10000000	Hybrid Energy Time constant
0x14	0x04	Attack Rate	4 / 1.31	0x00000007	Hybrid Attack Time constant
0x18	0x04	Release Rate	4 / 1.31	0x00000600	Hybrid Release Time constant
0x1C	0x04	level 5 duty	4 / 1.31	0x00021000	Hybrid level 5 duty value

0x20	0x04	level 4 duty	4 / 1.31	0x00042000	Hybrid level 4 duty value
0x24	0x04	level 3 duty	4 / 1.31	0x00084000	Hybrid level 3 duty value
0x28	0x04	level 2 duty	4 / 1.31	0x00108000	Hybrid level 2 duty value
0x2C	0x04	level 1 duty	4 / 1.31	0x00210000	Hybrid level 1 duty value
<b>DC BLOCK</b>					
0xB0	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xB4	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xB8	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xBC	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xC0	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xC4	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xC8	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xCC	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xD0	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xD4	0x04	48k Fs DC Block	4 / 5.27	0x00000000	48k Fs DC Block Filter Coefficient
0xD8	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0xDC	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0xE0	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0xE4	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0xE8	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0xEC	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0xF0	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0xF4	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0xF8	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0xFC	0x04	96k DC Block	4 / 5.27	0x00000000	96k DC Block Filter Coefficient
0x04	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
0x08	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
0x0C	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
0x10	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
0x14	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
0x18	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
0x1C	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
0x20	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
0x24	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
0x28	0x05	192k DC Block	4 / 5.27	0x00000000	192k DC Block Filter Coefficient
<b>Book 0x78(CH1/2) &amp; Book 0x78(CH3/4)</b>					
0xD0 ~0x14	0x02 ~0x03	Class-H Waveshape	4 / 32.0	0x00000000	Class-H Waveshape Coefficient