

**TAS6584 Mode Memory Map — Book 0x8C(CH1/2) & Book 0x8D(CH3/4)**

SUB ADDRESS	PAGE	REGISTER NAME	NUMBER OF BYTES/FORMAT	DEFAULT VALUE	DESCRIPTION
<b>VOLUME ALPHA</b>					
0x28	0x01	Softening Filter Alpha	4 / 1.31	0x00E2C46B	Volume Time constant
<b>CLASSH</b>					
0x38	0x01	Max Detect Window	4 / 32.0	0x00000000	Max Detect Window Samples
0x3C	0x01	Peak Hold	4 / 32.0	0x00000180	Peak Hold Samples
0x40	0x01	Peak Detect Offset	4 / 1.31	0x7FDF3B64	Peak Detect Offset linear
0x44	0x01	Peak Decay	4 / 1.31	0x7999999A	Peak Decay linear
0x48	0x01	Peak Smooth	4 / 1.31	0x0538EF35	Peak Smooth Time constant
0x4C	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x50	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x54	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x58	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x5C	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x60	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x64	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x68	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x6C	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x70	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x74	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x78	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x7C	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x80	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x84	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x88	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
0x8C	0x01	State Threshold	4 / 5.27	0x00000000	ClassH State Threshold linear
<b>LOW LATENCY PATH GAIN</b>					
0x34	0x02	Low Latency Path CH1/3 gain	4 / 9.23	0x00800000	Low Latency Path CH1/3 gain coefficient
0x38	0x02	Low Latency Path CH2/4 gain	4 / 9.23	0x00800000	Low Latency Path CH2/4 gain coefficient
<b>AUDIO PATH</b>					
0x44	0x02	Bypass AUX Path	4 / 32.0	0x00000000	AUX Path flag
0x48	0x02	Bypass SDOUT Path	4 / 32.0	0x00000000	SDOUT Path flag
<b>AGL</b>					
0x5C	0x02	Softening Filter Alpha	4 / 1.31	0x051EB852	AGL Energy Time constant
0x60	0x02	Attack Rate	4 / 1.31	0x000369D0	AGL Attack Time constant
0x68	0x02	Softening Filter Omega	4 / 1.31	0x7AE147AE	AGL Omega Time constant

0x6C	0x02	Release Rate	4 / 1.31	0x00005762	AGL Release Time constant
0x74	0x02	AGL Threshold	4 / 5.27	0x07CD549C	Threshold linear
0x80	0x02	Volt scale	4 / 9.23	0x010D489D	Volt scale linear
<b>RTL DG</b>					
0x88	0x02	RTL DG OL Threshold	4 / 1.31	0x1d000000	RTL DG Open Load coefficient
0x8C	0x02	RTL DG SL Threshold	4 / 1.31	0x00c50000	RTL DG Short Load coefficient
0x98	0x02	RTL DG BQ 1 B0	4 / 5.27	0x08000000	RTL DG BQ coefficient
0x9C	0x02	RTL DG BQ 1 B1	4 / 5.27	0x00000000	RTL DG BQ coefficient
0xA0	0x02	RTL DG BQ 1 B2	4 / 5.27	0x00000000	RTL DG BQ coefficient
0xA4	0x02	RTL DG BQ 1 A1	4 / 5.27	0x00000000	RTL DG BQ coefficient
0xA8	0x02	RTL DG BQ 1 A2	4 / 5.27	0x00000000	RTL DG BQ coefficient
<b>HYBRID MODULATION</b>					
0xBC	0x02	Hybrid Modulation Attack Rate	4 / 1.31	0x00000007	Hybrid Modulation Attack Time constant
0xC0	0x02	Hybrid Modulation Release Rate	4 / 1.31	0x00000064	Hybrid Modulation Release Time constant
<b>VOLUME</b>					
0x0C	0x03	CH1/3 Volume	4 / 9.23	0x00800000	Channel 1/3 Volume coefficient
0x10	0x03	CH2/4 Volume	4 / 9.23	0x00800000	Channel 2/4 Volume coefficient
<b>CLASSH DELAY</b>					
0x14	0x03	ClassH Delay CH1/3	4 / 32.0	0x000000F0	Channel 1/3 ClassH Delay Samples
0x18	0x03	ClassH Delay CH2/4	4 / 32.0	0x000000F0	Channel 2/4 ClassH Delay Samples
<b>PILOT TONE GAIN</b>					
0x24	0x03	Pilot tone gain	4 / 1.31	0x0020C49B	Pilot tone gain coefficient
<b>PVDD TIME CONSTANT</b>					
0x28	0x03	Softening Filter Alpha	4 / 1.31	0x20000000	PVDD Tracking Energy Time constant
<b>RTL DG</b>					
0x34	0x03	RTL DG OLSL Smooth	4 / 1.31	0x0000AEC3	RTL DG OLSL Smooth Time constant
0x38	0x03	RTL DG OLSL Smooth	4 / 1.31	0x0000AEC3	RTL DG OLSL Smooth Time constant
0x48	0x03	Bypass RTL DG OL/SL Detection	4 / 32.0	0x00000000	RTL DG OL/SL Detection flag
0x54	0x03	RTL DG OLSL Smooth	4 / 1.31	0x00002BB1	RTL DG OLSL Smooth Time constant
0x9C	0x03	Vsense Delay CH1/3	4 / 32.0	0x00000000	Channel 1/3 Vsense Delay Samples
0xA0	0x03	Vsense Delay CH2/4	4 / 32.0	0x00000000	Channel 2/4 Vsense Delay Samples
<b>PILOT TONE</b>					
0xA4	0x03	48k Pilot Tone init1	4 / 1.31	0x7FFFFD88	48k Pilot Tone init1 coefficient
0xA8	0x03	48k Pilot Tone init2	4 / 1.31	0xFFE6DE05	48k Pilot Tone init2 coefficient
0xAC	0x03	48k Pilot Tone init3	4 / 1.31	0x00007ff7	48k Pilot Tone init3 coefficient
0xB0	0x03	96k Pilot Tone init1	4 / 1.31	0x7FFFFFF62	96k Pilot Tone init1 coefficient
0xB8	0x03	96k Pilot Tone init2	4 / 1.31	0xFFFF36F03	96k Pilot Tone init2 coefficient
0xBc	0x03	96k Pilot Tone init3	4 / 1.31	0x0000ffed	96k Pilot Tone init3 coefficient
0xC0	0x03	192k Pilot Tone init1	4 / 1.31	0x7FFFFFFD9	192k Pilot Tone init1 coefficient

0xC4	0x03	192k Pilot Tone init2	4 / 1.31	0xFFFF9B781	192k Pilot Tone init2 coefficient
0xC8	0x03	192k Pilot Tone init3	4 / 1.31	0x00017fee	192k Pilot Tone init3 coefficient
<b>RTL DG</b>					
0x1C	0x04	48k RTL DG BQ 1 B0	4 / 5.27	0x000066EC	RTL DG BQ coefficient
0x20	0x04	48k RTL DG BQ 1 B1	4 / 5.27	0x00000000	RTL DG BQ coefficient
0x24	0x04	48k RTL DG BQ 1 B2	4 / 5.27	0xFFFF9914	RTL DG BQ coefficient
0x28	0x04	48k RTL DG BQ 1 A1	4 / 5.27	0x0FFF31DD	RTL DG BQ coefficient
0x2C	0x04	48k RTL DG BQ 1 A2	4 / 5.27	0xF800CDD9	RTL DG BQ coefficient
0x30	0x04	96k RTL DG BQ 1 B0	4 / 5.27	0x000066EC	RTL DG BQ coefficient
0x34	0x04	96k RTL DG BQ 1 B1	4 / 5.27	0x00000000	RTL DG BQ coefficient
0x38	0x04	96k RTL DG BQ 1 B2	4 / 5.27	0xFFFF9914	RTL DG BQ coefficient
0x3C	0x04	96k RTL DG BQ 1 A1	4 / 5.27	0x0FFF31DD	RTL DG BQ coefficient
0x40	0x04	96k RTL DG BQ 1 A2	4 / 5.27	0xF800CDD9	RTL DG BQ coefficient
0x44	0x04	192k RTL DG BQ 1 B0	4 / 5.27	0x000066EC	RTL DG BQ coefficient
0x48	0x04	192k RTL DG BQ 1 B1	4 / 5.27	0x00000000	RTL DG BQ coefficient
0x4C	0x04	192k RTL DG BQ 1 B2	4 / 5.27	0xFFFF9914	RTL DG BQ coefficient
0x50	0x04	192k RTL DG BQ 1 A1	4 / 5.27	0x0FFF31DD	RTL DG BQ coefficient
0x54	0x04	192k RTL DG BQ 1 A2	4 / 5.27	0xF800CDD9	RTL DG BQ coefficient
0x58	0x04	Enable RTL DG S2P/S2G Detection	4 / 32.0	0x00000000	RTL DG S2P/S2G Detection flag
0x5C	0x04	RTL DG S2P/S2G Alpha	4 / 1.31	0x000aec3	RTL DG S2P/S2G time constant
0x60	0x04	RTL DG S2P/S2G duration	4 / 32.0	0x00008000	RTL DG S2P/S2G time constant
0x64	0x04	RTL DG S2P threshold	4 / 1.31	0x40000000	RTL DG S2P threshold coefficient
<b>COMPENSATION EQ FLAG</b>					
0x74	0x04	Enable Compensation EQ	4 / 32.0	0x00000000	Compensation EQ flag
<b>RTL DG IVSENSE</b>					
0x84	0x04	CH1/3 Isense scale	4 / 9.23	0x00800000	Channel 1/3 Isense coefficient
0x88	0x04	CH2/4 Isense scale	4 / 9.23	0x00800000	Channel 2/4 Isense coefficient
0x8C	0x04	CH1/3 Vsense scale	4 / 9.23	0x00800000	Channel 1/3 Vsense coefficient
0x90	0x04	CH2/4 Vsense scale	4 / 9.23	0x00800000	Channel 2/4 Vsense coefficient
<b>THERMAL FOLDBACK</b>					
0x9C	0x04	CH1/3 Thermal Foldback Hold	4 / 32.0	0x000000fa	CH1/3 Thermal Foldback Hold Time constant
0xA0	0x04	CH1/3 Thermal Foldback Release	4 / 1.31	0x40bdb7c0	CH1/3 Thermal Foldback Release Time constant
0xA8	0x04	CH1/3 Thermal Foldback Attack	4 / 1.31	0x7c5e4e02	CH1/3 Thermal Foldback Attack Time constant
0xB0	0x04	CH2/4 Thermal Foldback Hold	4 / 32.0	0x000000fa	CH2/4 Thermal Foldback Hold Time constant
0xB4	0x04	CH2/4 Thermal Foldback Release	4 / 1.31	0x40bdb7c0	CH2/4 Thermal Foldback Release Time constant
0xBC	0x04	CH2/4 Thermal Foldback Attack	4 / 1.31	0x7c5e4e02	CH2/4 Thermal Foldback Attack Time constant
<b>CLIP DETECTION</b>					
0xD4	0x04	Clip Detection hold timer	4 / 32.0	0x0000bb80	Clip Detection time constant

0xD8	0x04	Bypass Clip Detection Mask RTLDDG OL/SL Detection	4 / 32.0	0x00000000	Clip Detection Mask RTLDDG OL/SL Detection flag
0xE4	0x04	Clip Detection threshold	4 / 1.31	0x3ffffffe	Clip Detection coefficient
0xE8	0x04	Enable Analog Clipping Detection	4 / 32.0	0x00000000	Analog Clipping Detection flag
<b>LOW LATENCY PATH FLAG</b>					
0xF8	0x04	Enable 96k Low Latency path	4 / 32.0	0x00000000	96k low Latency path flag
<b>COMPENSATION EQ</b>					
0x08	0x05	CH1/3 Compensation BQ 1 B0	4 / 5.27	0x00800000	CH1/3 Compensation BQ coefficient
0x0C	0x05	CH1/3 Compensation BQ 1 B1	4 / 5.27	0x00000000	CH1/3 Compensation BQ coefficient
0x10	0x05	CH1/3 Compensation BQ 1 B2	4 / 5.27	0x00000000	CH1/3 Compensation BQ coefficient
0x14	0x05	CH1/3 Compensation BQ 1 A1	4 / 5.27	0x00000000	CH1/3 Compensation BQ coefficient
0x18	0x05	CH1/3 Compensation BQ 1 A2	4 / 5.27	0x00000000	CH1/3 Compensation BQ coefficient
0x1C	0x05	CH2/4 Compensation BQ 1 B0	4 / 5.27	0x00800000	CH2/4 Compensation BQ coefficient
0x20	0x05	CH2/4 Compensation BQ 1 B1	4 / 5.27	0x00000000	CH2/4 Compensation BQ coefficient
0x24	0x05	CH2/4 Compensation BQ 1 B2	4 / 5.27	0x00000000	CH2/4 Compensation BQ coefficient
0x28	0x05	CH2/4 Compensation BQ 1 A1	4 / 5.27	0x00000000	CH2/4 Compensation BQ coefficient
0x2C	0x05	CH2/4 Compensation BQ 1 A2	4 / 5.27	0x00000000	CH2/4 Compensation BQ coefficient
<b>RTLDDG Threshold</b>					
0x90	0x05	RTLDDG S2G threshold	4 / 1.31	0x40000000	RTLDDG S2G coefficient