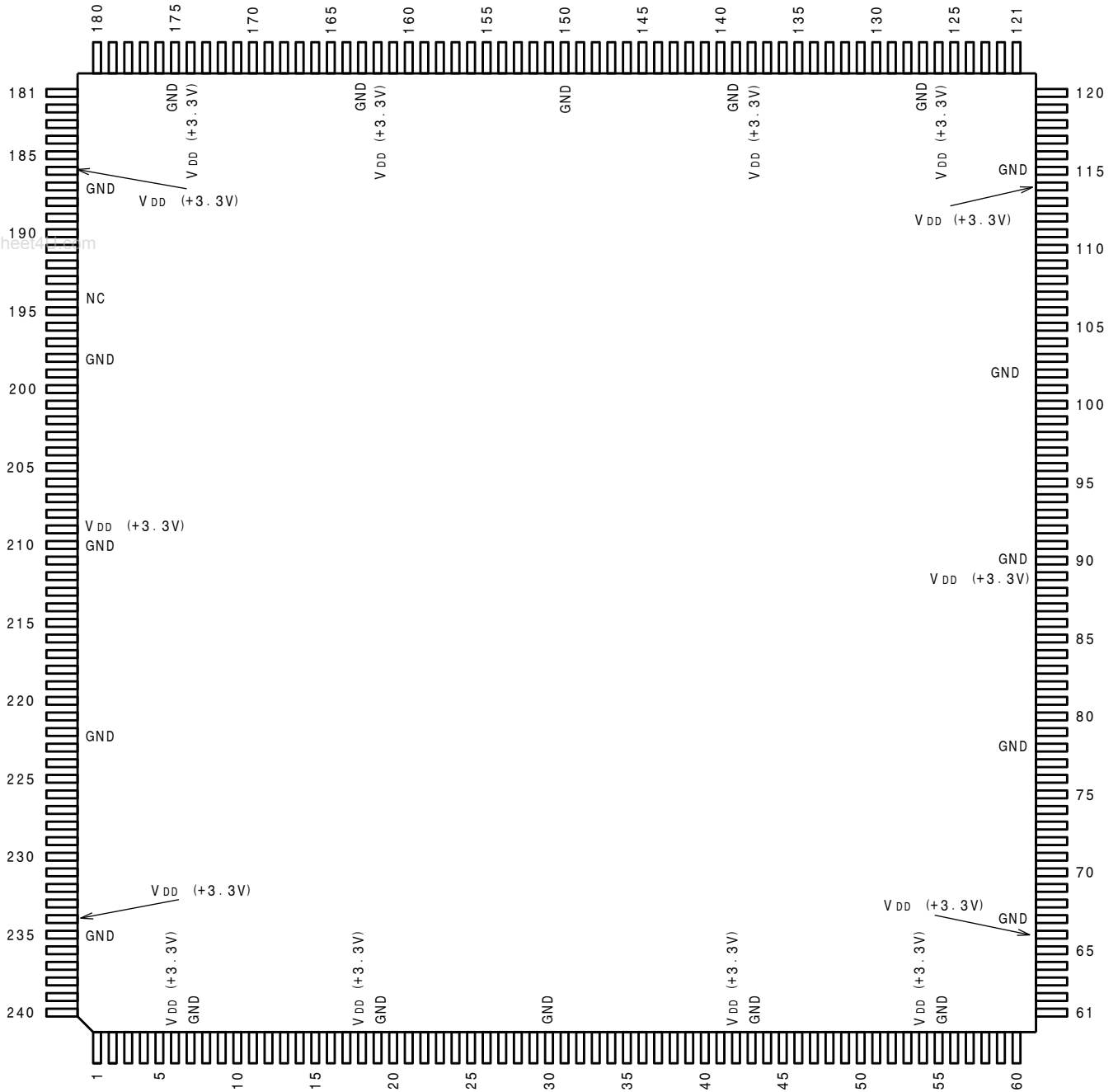

C-MOS PROGRAM PLAY PROCESSOR

-TOP VIEW-



(V_{DD} = +3.3V)

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	0	AA12	49	I	CF11	97	I/O	SYSIO5	145	I	PPDEDT7	193	0	PPDATA0
2	0	AA11	50	I	CF10	98	I/O	SYSIO4	146	I	PPDEDT6	194	-	NC
3	0	AA10	51	I	CF9	99	I	STRB	147	I	PPDEDT5	195	0	WP
4	0	AA9	52	I	CF8	100	I	SCS	148	I	PPDEDT4	196	0	GIVEUP
5	0	AA8	53	I	CF7	101	I	DEFS256	149	I	PPDEDT3	197	I	PPDEAU1
6	-	V _{DD}	54	-	V _{DD}	102	-	GND	150	-	GND	198	-	GND
7	-	GND	55	-	GND	103	0	FS256P	151	I	PPDEDT2	199	I	PPDEAU0
8	0	AA7	56	I	CF6	104	I	DEFS	152	I	PPDEDT1	200	I/O	AMAIO15
9	0	AA6	57	I	CF5	105	I	IBUSEN	153	I	PPDEDT0	201	I/O	AMAIO14
10	0	AA5	58	I	CF4	106	0	OBUSEN	154	I	PPDEPRY	202	I/O	AMAIO13
11	0	AA4	59	I	CF3	107	I/O	SYSIO3	155	I	PPDESY	203	I/O	AMAIO12
12	0	AA3	60	I	CF2	108	I/O	SYSIO2	156	I	PPDEEF	204	I/O	AMAIO11
13	0	AA2	61	I	CF1	109	I/O	SYSIO1	157	I	FSP1	205	I/O	AMAIO10
14	0	AA1	62	I	CF0	110	I/O	SYSIO0	158	0	MRST	206	I/O	AMAIO9
15	0	AA0	63	0	CA14	111	I	STAT1	159	I	MI7	207	I/O	AMAIO8
16	0	AB15	64	0	CA13	112	I	STAT0	160	I	MI6	208	I/O	AMAIO7
17	0	AB14	65	0	CA12	113	I	MCK	161	I	MI5	209	-	V _{DD}
18	-	V _{DD}	66	-	V _{DD}	114	-	V _{DD}	162	-	V _{DD}	210	-	GND
19	-	GND	67	-	GND	115	-	GND	163	-	GND	211	I/O	AMAIO6
20	0	AB13	68	0	CA11	116	I	PPCK	164	I	MI4	212	I/O	AMAIO5
21	0	AB12	69	0	CA10	117	I	CHIPID	165	I	MI3	213	I/O	AMAIO4
22	0	AB11	70	0	CA9	118	0	SYSHL0	166	I	MI2	214	I/O	AMAIO3
23	0	AB10	71	0	CA8	119	0	SYSHL1	167	I	MI1	215	I/O	AMAIO2
24	0	AB9	72	0	CA7	120	0	VPHASE	168	I	MI0	216	I/O	AMAIO1
25	0	AB8	73	0	CA6	121	0	APHASE	169	I	MIEF	217	I/O	AMAIO0
26	0	AB7	74	0	CA5	122	0	CPHASE	170	0	MWEN0	218	I/O	AMBIO15
27	0	AB6	75	0	CA4	123	0	RPHASE	171	0	MWEN1	219	I/O	AMBIO14
28	0	AB5	76	0	CA3	124	0	PTWEN	172	0	MWEN2	220	I/O	AMBIO13
29	0	AB4	77	0	CA2	125	0	PPREFV	173	0	MWEN3	221	I/O	AMBIO12
30	-	GND	78	-	GND	126	-	V _{DD}	174	-	V _{DD}	222	-	GND
31	0	AB3	79	0	CA1	127	-	GND	175	-	GND	223	I/O	AMBIO11
32	0	AB2	80	0	CA0	128	I	RESET	176	0	MREN0	224	I/O	AMBIO10
33	0	AB1	81	I	MDTES4	129	I	REFV	177	0	MREN1	225	I/O	AMBIO9
34	0	AB0	82	I	MDTES3	130	0	PITY	178	0	MREN2	226	I/O	AMBIO8
35	I	CF23	83	I	MDTES2	131	0	PITX	179	0	MREN3	227	I/O	AMBIO7
36	I	CF22	84	I	MDTES1	132	I	MCDT7	180	0	ASUB	228	I/O	AMBIO6
37	I	CF21	85	I	MDTES0	133	I	MCDT6	181	0	PPPRY	229	I/O	AMBIO5
38	I	CF20	86	0	SELECT	134	I	MCDT5	182	0	PPSY	230	I/O	AMBIO4
39	I	CF19	87	0	PPAU1	135	I	MCDT4	183	0	PPEF	231	I/O	AMBIO3
40	I	CF18	88	0	PPAU0	136	I	MCDT3	184	0	PPDATA7	232	I/O	AMBIO2
41	I	CF17	89	-	V _{DD}	137	I	MCDT2	185	0	PPDATA6	233	I/O	AMBIO1
42	-	V _{DD}	90	-	GND	138	-	V _{DD}	186	-	V _{DD}	234	-	V _{DD}
43	-	GND	91	I	FS256	139	-	GND	187	-	GND	235	-	GND
44	I	CF16	92	I	FS	140	I	MCDT1	188	0	PPDATA5	236	I/O	AMBIO0
45	I	CF15	93	0	MUTE	141	I	MCDT0	189	0	PPDATA4	237	0	AMWEN
46	I	CF14	94	0	PPCKO	142	0	PTOE	190	0	PPDATA3	238	0	AA15
47	I	CF13	95	I/O	SYSIO7	143	0	FOWRST	191	0	PPDATA2	239	0	AA14
48	I	CF12	96	I/O	SYSIO6	144	0	FORRST	192	0	PPDATA1	240	0	AA13

INPUT
 CFO-23 : AUDIO RATE CONVERTER COEFFICIENTS
 CHIPID : CHIP IDENTIFICATION
 DEFS : DECODER AUDIO FREQUENCY
 (48kHz OR VARIABLE)
 DEFS256 : DECODER AUDIO FREQUENCY
 (48kHzX256 OR VARIABLE)
 FS : AUDIO REFERENCE FREQUENCY (48kHz)
 FS256 : AUDIO REFERENCE FREQUENCY (48kHzX256)
 FSP1 : AUDIO PROGRAM PLAY FREQUENCY
 (48kHz ±15%)
 IBUSEN : SYSTEM CONTROL INTERFACE
 SYS100-7 BUS SWITCH
 MCDT0-7 : MOVING COMPENSATE 2-FIELD DELAY DATA
 MCK : MASTER CLOCK (13.5MHz)
 MDTES0-4 : TEST PINS (NORMALLY LOW)
 MIO-7 : FIFO MEMORY DATA
 MIEF : FIFO MEMORY ERROR DATA
 PPCK : PROGRAM PLAY CLOCK (13.5MHz ±15%)
 PPDEAU.1 : AUDIO SERIAL DATA CH1/CH2, CH3/CH4
 PPDEDT0-7 : VIDEO 8-BIT DATA
 PPDEEF : VIDEO ERROR FLAG
 PPDEPRY : VIDEO PARITY FLAG
 PPDESY : VIDEO SYNCHRONOUS PULSE
 REFV : REFERENCE VD
 RESET : CHIP RESET PULSE
 SCS : SYSTEM CONTROL INTERFACE CHIP SELECT
 STAT0.1 : SYSTEM CONTROL INTERFACE STATES
 STRB : SYSTEM CONTROL INTERFACE CLOCK

OUTPUT
 AA0-15 : AUDIO A MEMORY CONTROL ADDRESSES
 AB0-15 : AUDIO B MEMORY CONTROL ADDRESSES
 AMWEN : AUDIO MEMORY WRITE ENABLE
 APHASE : AUDIO CLOCK PHASE DETECTION
 ASUB : PITCH SHIFT CONTROL SIGNAL
 CA0-14 : AUDIO RATE CONVERTER
 COEFFICIENTS ADDRESSES
 CPHASE : AUDIO VIDEO CLOCK PHASE DETECTION
 FORRST : FIFO READ RESET PULSE
 FOWRST : FIFO WRITE RESET PULSE
 FS256P : AUDIO PROGRAM PLAY FREQUENCY
 (48kHzX256 ±15%)
 GIVEUP : AUDIO PITCH DETECTION FAILUER MONITOR
 MWENO-3 : FRAME SYNCHRONIZER CONTROL
 READ ENABLE PULSES
 MRST : FIFO READ RESET
 MUTE : AUDIO MUTE SERIAL SIGNAL
 MWENO-3 : FRAME SYNCHRONIZER CONTROL
 WRITE ENABLE PULSES
 OBUSEN : SYSTEM CONTROL INTERFACE
 I/O BUS CONTROL
 PITX : CHANNEL A AUDIO PITCH WIDTH MONITOR
 PITY : CHANNEL B AUDIO PITCH WIDTH MONITOR
 PPAU.1 : AUDIO SERIAL DATA CH1/CH2, CH3/CH4
 PPCKO : SELECTED VIDEO CLOCK
 PPDATA0-7 : VIDEO 8-BIT DATA
 PPEF : VIDEO ERROR FLAG
 PPPRY : VIDEO PARITY FLAG
 PPREFV : PROGRAM PLAY REFERENCE VD
 PPSY : VIDEO SYNCHRONOUS PULSE
 PTOE : AUDIO SUB MEMORY OUTPUT ENABLE
 PTWEN : AUDIO SUB MEMORY WRITE ENABLE
 RPHASE : AUDIO CLOCK REFERENCE PHASE DETECTION
 SELECT : AUDIO SWITCH PULSE
 SYSHL0.1 : SYSTEM CONTROL PORTS
 VPHASE : VIDEO CLOCK PHASE DETECTION
 WP : AUDIO WINDOW PULSE

INPUT/OUTPUT
 SYS100-7 : SYSTEM CONTROL INTERFACE DATA
 AMA100-15 : AUDIO A MEMORY DATA I/O
 AMB100-16 : AUDIO B MEMORY DATA I/O

