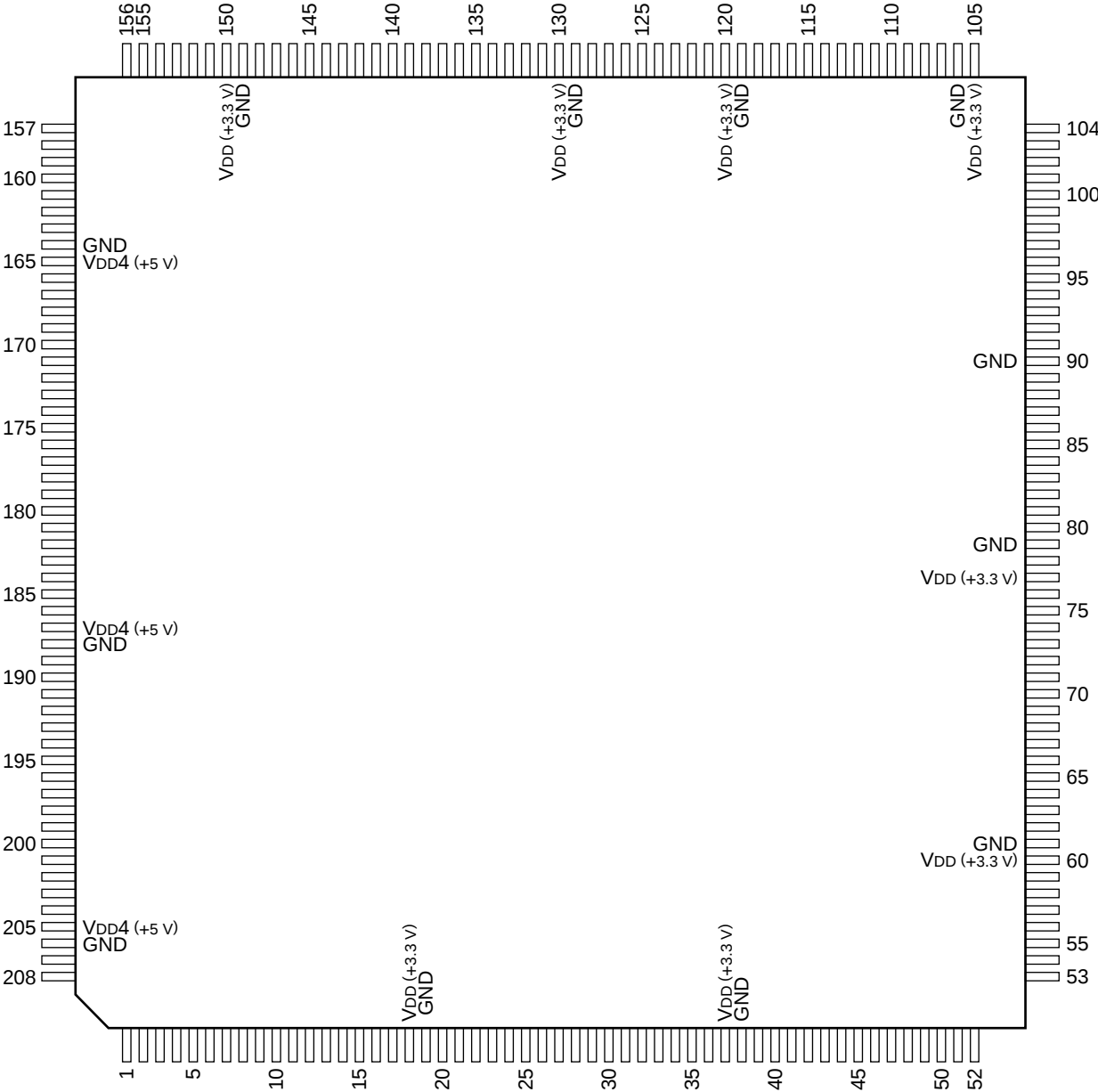


C-MOS RAID CONTROLLER (GATE ARRY)

—TOP VIEW—



(V_{DD} = +3.3 V, V_{DD4} = +5 V)

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I/O	DATAIO0	53	O	THOUT	105	—	V _{DD}	157	O	DLYAOUT6
2	I/O	DATAIO1	54	I	SCAN0	106	—	GND	158	O	DLYAOUT5
3	I/O	DATAIO2	55	I	SCAN1	107	I	RST	159	O	DLYAOUT4
4	I/O	DATAIO3	56	I	SCAN2	108	O	RSTABR	160	O	DLYAOUT3
5	I/O	DATAIO4	57	O	SCAN3	109	O	RSTABW	161	O	DLYAOUT2
6	I/O	DATAIO5	58	I	TSTZ	110	O	RSTCR	162	O	DLYAOUT1
7	I/O	DATAIO6	59	I	IDDTEST	111	O	RSTCW	163	O	DLYAOUT0
8	I/O	DATAIO7	60	—	V _{DD}	112	O	SCNTCOR	164	—	GND
9	I/O	DATAIO8	61	—	GND	113	O	SCNT1	165	—	V _{DD4}
10	I/O	DATAIO9	62	O	DUMYGET	114	O	SCNTRAID	166	I	H200SELI
11	I/O	DATAIO10	63	O	GET	115	O	START	167	I	DLYCIN9
12	I/O	DATAIO11	64	O	$\overline{IV}$	116	I	$\overline{SV}$	168	I	DLYCIN8
13	I/O	DATAIO12	65	O	KEY	117	O	WCNT1	169	I	DLYCIN7
14	I/O	DATAIO13	66	O	PLAYBSY	118	O	WCNTWID	170	I	DLYCIN6
15	I/O	DATAIO14	67	O	RECPLAY	119	—	GND	171	I	DLYCIN5
16	I/O	DATAIO15	68	O	PUT	120	—	V _{DD}	172	I	DLYCIN4
17	I/O	DATAIO16	69	O	REAB	121	O	WCT0	173	I	DLYCIN3
18	—	V _{DD}	70	O	REC	122	O	WEAB	174	I	DLYCIN2
19	—	GND	71	O	REVOUTL	123	O	WEC	175	I	DLYCIN1
20	I/O	DATAIO17	72	O	REVOUTU	124	O	WEVINL	176	I	DLYCIN0
21	I/O	DATAIO18	73	O	RECBSY	125	O	WEVINU	177	I	DLYBIN9
22	I/O	DATAIO19	74	O	DSTART	126	O	WEVPL	178	I	DLYBIN8
23	I/O	DATAIO20	75	I	SREQ	127	O	WEVPU	179	I	DLYBIN7
24	I/O	DATAIO21	76	I	OFFSET	128	O	PT	180	I	DLYBIN6
25	I/O	DATAIO22	77	—	V _{DD}	129	—	GND	181	I	DLYBIN5
26	I/O	DATAIO23	78	I	CLOCK	130	—	V _{DD}	182	I	DLYBIN4
27	I/O	DATAIO24	79	—	GND	131	O	H200SEL0	183	I	DLYBIN3
28	I/O	DATAIO25	80	I	VI0	132	O	DLYCOUT9	184	I	DLYBIN2
29	I/O	DATAIO26	81	I	VI1	133	O	DLYCOUT8	185	I	DLYBIN1
30	I/O	DATAIO27	82	I	VI2	134	O	DLYCOUT7	186	I	DLYBIN0
31	I/O	DATAIO28	83	I	VI3	135	O	DLYCOUT6	187	—	V _{DD4}
32	I/O	DATAIO29	84	I	VI4	136	O	DLYCOUT5	188	—	GND
33	I/O	DATAIO30	85	I	VI5	137	O	DLYCOUT4	189	I	DLYAIN9
34	I/O	DATAIO31	86	I	VI6	138	O	DLYCOUT3	190	I	DLYAIN8
35	O	EN	87	I	VI7	139	O	DLYCOUT2	191	I	DLYAIN7
36	O	$\overline{EV}$	88	I	VI8	140	O	DLYCOUT1	192	I	DLYAIN6
37	—	V _{DD}	89	I	VI9	141	O	DLYCOUT0	193	I	DLYAIN5
38	—	GND	90	—	GND	142	O	DLYBOUT9	194	I	DLYAIN4
39	O	CSVOUTL	91	O	VO0	143	O	DLYBOUT8	195	I	DLYAIN3
40	O	CSVOUTU	92	O	VO1	144	O	DLYBOUT7	196	I	DLYAIN2
41	I	$\overline{CTL}$	93	O	VO2	145	O	DLYBOUT6	197	I	DLYAIN1
42	O	DEND	94	O	VO3	146	O	DLYBOUT5	198	I	DLYAIN0
43	O	DOUTCTL	95	O	VO4	147	O	DLYBOUT4	199	I	PEN
44	O	DREQCTL0	96	O	VO5	148	O	DLYBOUT3	200	I	GEN
45	O	DREQCTL1	97	O	VO6	149	—	GND	201	I	$\overline{AFPA}$
46	O	READCTL0	98	O	VO7	150	—	V _{DD}	202	I	$\overline{AFDT}$
47	O	READCTL1	99	O	VO8	151	O	DLYBOUT2	203	I	$\overline{EMPDT}$
48	O	WRITECTL0	100	O	VO9	152	O	DLYBOUT1	204	I	$\overline{EF}$
49	O	WRITECTL1	101	O	VSIG0	153	O	DLYBOUT0	205	—	V _{DD4}
50	O	LCNTLSB	102	O	VSIG1	154	O	DLYAOUT9	206	—	GND
51	O	DACT	103	O	VSIG2	155	O	DLYAOUT8	207	I	VTEST
52	O	EORCTL	104	O	VSIG3	156	O	DLYAOUT7	208	I	PBINH

INPUT

AFDT	: ALMOST FULL FROM BUFFER FOR VIDEO (REC)
AFPA	: ALMOST FULL FROM BUFFER FOR PARITY (REC)
CLOCK	: SYSTEM CLOCK
CTL	: DMAC CONTROL
DLYAIN0 - DLYAIN9	: DATA INPUT FROM DELAY A
DLYBIN0 - DLYBIN9	: DATA INPUT FROM DELAY B
DLYCIN0 - DLYCIN9	: DATA INPUT FROM DELAY C
EF	: EMPTY FROM SEQUENCE BUFFER
EMPD	: EMPTY FROM BUFFER FOR PLAYING (PLAY)
GEN	: GET ENABLE FROM VIDEO BLOCK
H200SELI	: DUMMY COLOR SELECT FROM DELAY C
IDDTEST	: IDD TEST
OFFSET	: OFFSET FOR BUFFER FROM DMAC
PBINH	: PLAYBACK INHIBIT
PEN	: PUT ENABLE FROM VIDEO BLOCK
RST	: RESET
SCAN0 - SCAN2	: SCAN TEST
SREQ	: S REQUEST FROM DMAC
SV	: START VIDEO
TSTZ	: HIGH IMPEDANCE TEST
VI0 - VI9	: VIDEO
VTEST	: VIDEO TEST

OUTPUT

CSVOUTL	: CHIP SELECT FOR PLAYING (LOWER SIDE)
CSVOUTU	: CHIP SELECT FOR PLAYING (UPPER SIDE)
DACT	: DATA ACTIVE
DEND	: END OF DATA PACK SEQUENCE
DLYAOUT0 - DLYAOUT9	: DATA OUTPUT TO DELAY A
DLYBOUT0 - DLYBOUT9	: DATA OUTPUT TO DELAY B
DLYCOUT0 - DLYCOUT9	: DATA OUTPUT TO DELAY C
DOUTCTL	: DATA OUT ENABLE
DREQCTL0, DRECCTL1	: DATA REQUEST SEQUENCE
DSTART	: DATA START SEQUENCE
DUMMYGET	: DUMMY GET
EN	: READ ENABLE
EORCTL	: EOR SEQUENCE
EV	: END VIDEO
GET	: GET
H200SELO	: DUMMY COLOR SELECT TO DELAY C
IV	: INTERRUPT VIDEO
KEY	: KEY MODE
LCNTLSB	: LSB OF LOOP COUNTER
PLAYBSY	: PLAY BUSY
PT	: 10-BIT MODE
PUT	: PUT
REAB	: READ ENABLE TO DELAY A AND B
READCTL0, READCTL1	: READ SEQUENCE
REC	: READ ENABLE TO DELAY C
RECBSY	: REC BUSY
RECPAY	: REC/PLAY
REVOUTL	: READ ENABLE FOR PLAYING (LOWER)
REVOUTU	: READ ENABLE FOR PLAYING (UPPER)
RSTABR	: RESET TO DELAY A AND B READ
RSTABW	: RESET TO DELAY A AND B WRITE
RSTCR	: RESET TO DELAY C READ
RSTCW	: RESET TO DELAY C WRITE
SCAN3	: SCAN TEST
SCNT1	: STREAM COUNT 1
SCNTCOR	: CORRECT SIGNAL IN STREAM COUNT
SCNTRAI0	: STREAM COUNT RAID
START	: START SIGNAL OF DATA SEQUENCE
THOUT	: TH TEST
VO0 - VO9	: VIDEO
VSIG0 - VSIG3	: VIDEO BLOCK SIGNAL
WCNT1	: WORD COUNT 1
WCNTWID	: WORD COUNT WIDTH
WCT0	: LSB OF WORD COUNT
WEAB	: WRITE ENABLE TO DELAY A AND B
WEC	: WRITE ENABLE TO DELAY C
WEVINL	: WRITE ENABLE TO BUFFER VIDEO IN DMA SIDE (LOWER)
WEVINU	: WRITE ENABLE TO BUFFER VIDEO IN DMA SIDE (UPPER)
WEVPL	: WRITE ENABLE TO BUFFER PARITY IN DMA SIDE (LOWER)
WEVPU	: WRITE ENABLE TO BUFFER PARITY IN DMA SIDE (UPPER)
WRITECTL0, WRITECTL1	: WRITE SEQUENCE

INPUT/OUTPUT

DATAIO0 - DATAIO31	: DATA
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