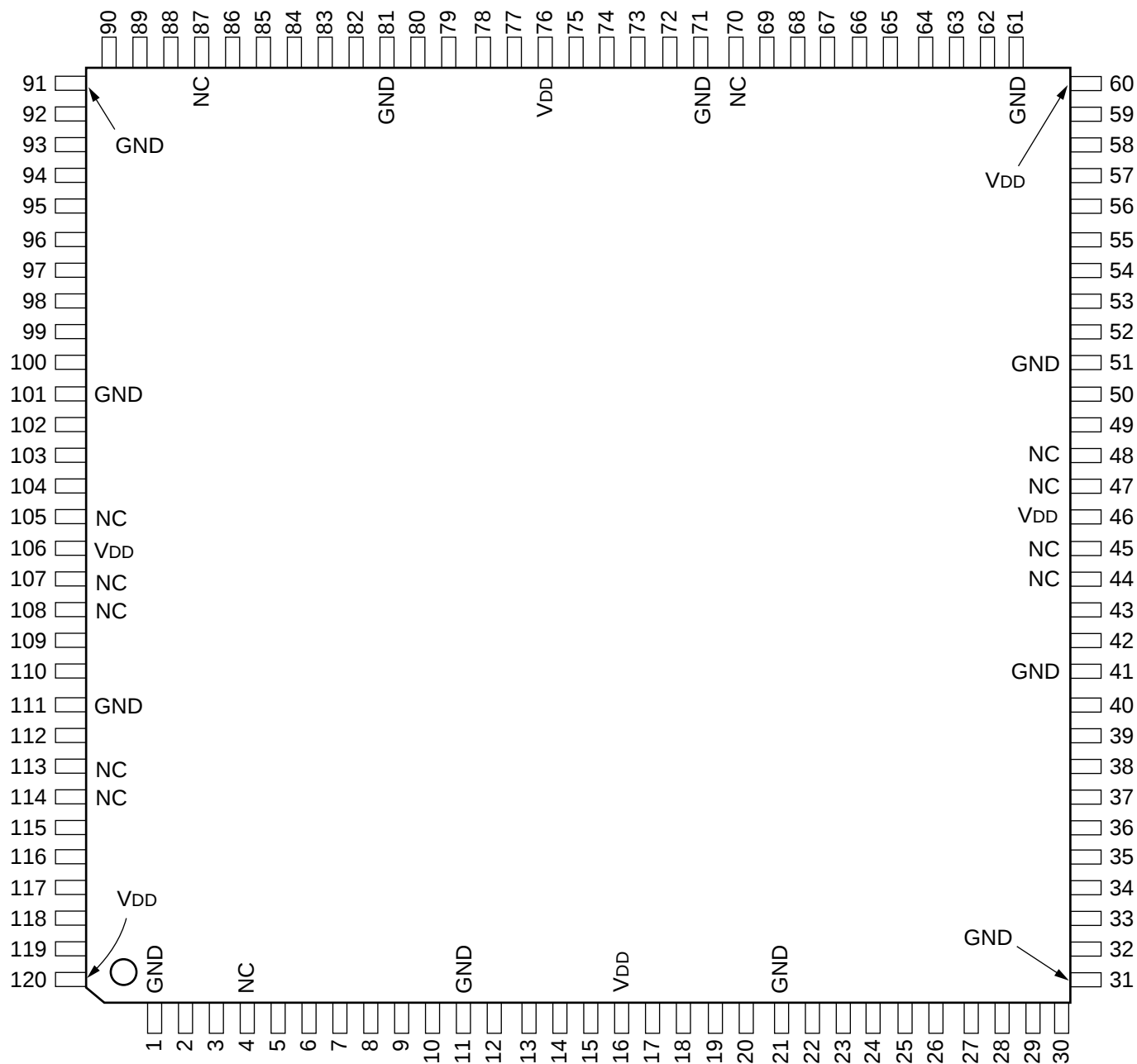


C-MOS DIGITAL AUDIO TIME BASE COMPRESSION FOR SIF TRANSMITTER

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	GND	31	—	GND	61	—	GND	91	—	GND
2	IU	$\overline{\text{IT}}1$	32	ID	C3/4	62	IU	CWA0 (LSB)	92	OT	AUX0 (LSB)
3	IU	$\overline{\text{CLR}}$	33	ID	C1/2	63	IU	CWA1	93	OT	AUX1
4	—	NC	34	ID	U3/4	64	IU	CWA2	94	OT	AUX2
5	O	OT1	35	ID	U1/2	65	IU	CWA3 (MSB)	95	OT	AUX3
6	O	OT2	36	ID	V3/4	66	IU	CWEN	96	OT	AUX4
7	O	OT3	37	ID	V1/2	67	IU	$\overline{\text{IT}}3$	97	OT	AUX5
8	O	OT4	38	ID	AD3/4	68	IU	$\overline{\text{IT}}4$	98	OT	AUX6
9	O	OT5	39	ID	AD1/2	69	IU	$\overline{\text{IT}}5$	99	OT	AUX7
10	O	OT6	40	ID	BCK	70	—	NC	100	OT	AUX8
11	—	GND	41	—	GND	71	—	GND	101	—	GND
12	O	OT7	42	ID	128CK	72	IU	DID0	102	OT	AUX9 (MSB)
13	O	OT8	43	IU	LRCK	73	IU	DID1	103	O	ADBT
14	O	OT9	44	—	NC	74	IU	LIM0	104	ID	$\overline{\text{OE}}\text{AUX}$
15	O	OT10	45	—	NC	75	IU	LIM1	105	—	NC
16	—	VDD	46	—	VDD	76	—	VDD	106	—	VDD
17	O	OT11	47	—	NC	77	IU	$\overline{\text{CHS}}1$	107	—	NC
18	O	OT12	48	—	NC	78	IU	$\overline{\text{CHS}}2$	108	—	NC
19	O	OT13	49	IU	$\overline{\text{IT}}2$	79	IU	$\overline{\text{CHS}}3$	109	IU	SYNC
20	O	OT14	50	IU	CWCK	80	IU	$\overline{\text{CHS}}4$	110	ID	VCK
21	—	GND	51	—	GND	81	—	GND	111	—	GND
22	IU	CHEX1	52	IU	CWD7 (MSB)	82	IU	DLY0 (LSB)	112	IU	D2/D1
23	IU	CHEX0	53	IU	CWD6	83	IU	DLY1	113	—	NC
24	IU	AFS	54	IU	CWD5	84	IU	DLY2	114	—	NC
25	IU	LRS	55	IU	CWD4	85	IU	DLY3	115	O	OT15
26	IU	DIR	56	IU	CWD3	86	IU	DLY4 (MSB)	116	O	OT16
27	IU	20/16	57	IU	CWD2	87	—	NC	117	O	OT17
28	IU	ZCS	58	IU	CWD1	88	O	AUXT	118	O	OT18
29	ID	Z3/4	59	IU	CWD0 (LSB)	89	O	UDT	119	O	OY19
30	ID	Z1/2	60	—	VDD	90	O	ADFT	120	—	VDD

U ; INPUT WITH PULL-UP REGISTER

D ; INPUT WITH PULL-DOWN REGISTER

OT ; TRI-STATE OUTPUT

INPUT (WITH PULL-DOWN REGISTER)

128CK	; DIGITAL AUDIO 128 x Fs CLOCK
AD1/2	; DIGITAL AUDIO CH-1/2 DATA
AD3/4	; DIGITAL AUDIO CH-3/4 DATA
BCK	; DIGITAL AUDIO BIT CLOCK (=64 x Fs)
C1/2	; DIGITAL AUDIO CH-1/2 CHANNEL STATUS BIT
C3/4	; DIGITAL AUDIO CH-3/4 CHANNEL STATUS BIT
$\overline{\text{OE}}\text{AUX}$	; OUTPUT ENABLE FOR AUX0–9 (L)
U1/2	; DIGITAL AUDIO CH-1/2 USER DATA BIT
U3/4	; DIGITAL AUDIO CH-3/4 USER DATA BIT
V1/2	; DIGITAL AUDIO CH-1/2 VALIDITY FLAG
V3/4	; DIGITAL AUDIO CH-3/4 VALIDITY FLAG
VCK	; VIDEO CLOCK (=4Fsc) INPUT
Z1/2	; DIGITAL AUDIO CH-1/2 BLOCK SYNC (Z-FLAG)
Z3/4	; DIGITAL AUDIO CH-3/4 BLOCK SYNC (Z-FLAG)

INPUT (WITH PULL-UP REGISTER)

20/16	; DIGITAL AUDIO 20BIT/16BIT SELECT
AFS	; DIGITAL AUDIO FORMAT SELECT
CHEX0, 1	; CHANNEL EXCHANGE 0, 1
$\overline{\text{CHS}}1 - \overline{\text{CHS}}4$	; AUDIO CH1–CH4 OUTPUT SELECT (L)
$\overline{\text{CLR}}$	; POWER ON CLEAR (L)
CWA0 - CWA3	; CHANNEL STATUS REGISTER WRITE ADDRESS 0 - 3
CWCK	; CHANNEL STATUS REGISTER WRITE CLOCK
CWD0 - CWD7	; CHANNEL STATUS REGISTER WRITE DATA 0 - 7
CWEN	; CHANNEL STATUS REGISTER WRITE ENABLE
D2/D1	; VIDEO FORMAT D2/D1 SELECT
DID0, 1	; DATA ID BIT0, 1
DIR	; DIGITAL AUDIO MSB FIRST/LSB FIRST SELECT
DLY0 - DLY4	; DELAY CONTROL BIT0 - BIT3
$\overline{\text{IT}}1 - \overline{\text{IT}}5$	; TEST (L)
LIM0, 1	; LINE MODE 0, 1
LRCK	; DIGITAL AUDIO L/R CLOCK (=Fs)
LRS	; DIGITAL AUDIO LEFT/RIGHT BIT POSITION SELECT
SYNC	; VIDEO SYNC INPUT
ZCS	; DIGITAL AUDIO Z-FLAG C-BIT SELECT

OUTPUT

ADBT	; AUX. DATA BLOCK TIMING
ADFT	; AUX. DATA FLAG TIMING
AUXT	; AUX. DATA TIMING
OT1 = OT19	; TEST
UDT	; USER DATA TIMING

OUTPUT (TRI-STATE)

AUX0 - AUX9	; AUX. DATA 0 - 9
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80	CHS4		
79	CHS3		
78	CHS2	NC	114
77	CHS1	NC	113
22	CHEX1	NC	108
23	CHEX0	NC	107
73	DID1	NC	105
72	DID0	NC	87
		NC	70
112	D2/D1	NC	48
		NC	47
86	DLY4	NC	45
85	DLY3	NC	44
84	DLY2	NC	4
83	DLY1		
82	DLY0		
104	OEAXX	OT19	119
69	IT5	OT18	118
68	IT4	OT17	117
67	IT3	OT16	116
49	IT2	OT15	115
2	IT1	OT14	20
29	Z3/4	OT13	19
30	Z1/2	OT12	18
32	C3/4	OT11	17
33	C1/2	OT10	15
34	U3/4	OT9	14
35	U1/2	OT8	13
36	V3/4	OT7	12
37	V1/2	OT6	10
28	ZCS	OT5	9
27	20/16	OT4	8
26	DIR	OT3	7
25	LRS	OT2	6
24	AFS	OT1	5
39	AD1/2		
38	AD3/4	UDT	89
43	LRCK	ADFT	90
42	128CK	AUXT	88
40	BCK	ADBT	103
75	LIM1	AUX9	102
74	LIM0	AUX8	100
52	CWD7	AUX7	99
53	CWD6	AUX6	98
54	CWD5	AUX5	97
55	CWD4	AUX4	96
56	CWD3	AUX3	95
57	CWD2	AUX2	94
58	CWD1	AUX1	93
59	CWD0	AUX0	92
65	CWA3		
64	CWA2		
63	CWA1		
62	CWA0		
66	CWEN		
50	CWCK		
110	VCK		
3	CLR		
109	SYNC		