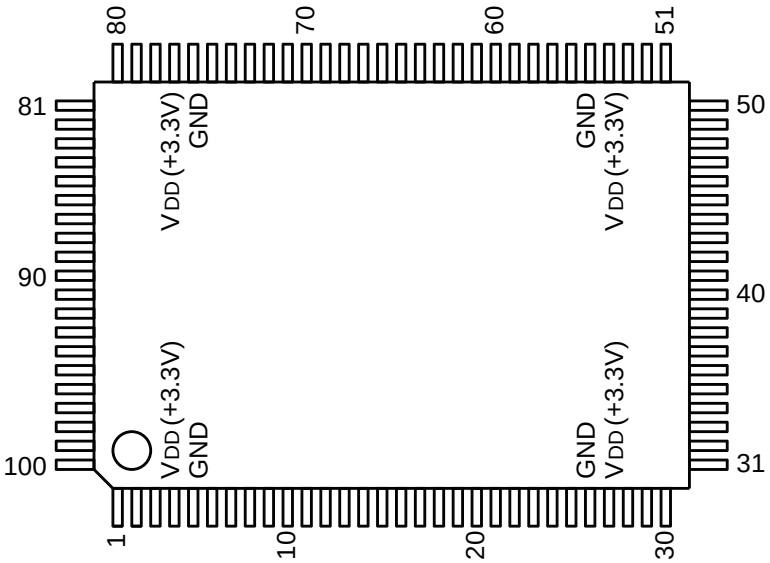
****

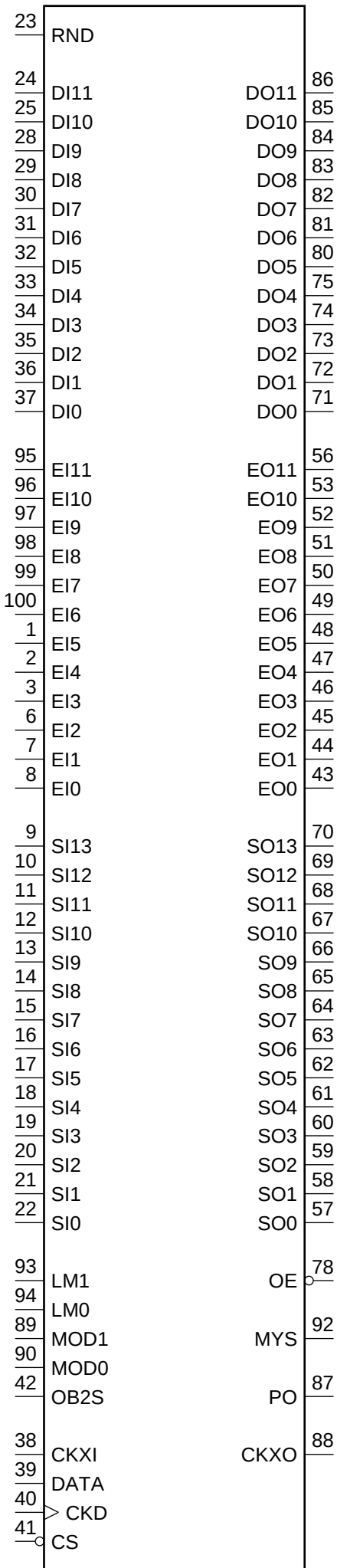
C-MOS DIGITAL FILTER

-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	I	EI5	21	I	SI1	41	I	$\overline{CS}$	61	O	SO4	81	O	DO6
2	I	EI4	22	I	SI0	42	I	OB2S	62	O	SO5	82	O	DO7
3	I	EI3	23	I	RND	43	O	EO0	63	O	SO6	83	O	DO8
4	–	VDD	24	I	DI11	44	O	EO1	64	O	SO7	84	O	DO9
5	–	GND	25	I	DI10	45	O	EO2	65	O	SO8	85	O	DO10
6	I	EI2	26	–	GND	46	O	EO3	66	O	SO9	86	O	DO11
7	I	EI1	27	–	VDD	47	O	EO4	67	O	SO10	87	O	PO
8	I	EI0	28	I	DI9	48	O	EO5	68	O	SO11	88	O	CKXO
9	I	SI13	29	I	DI8	49	O	EO6	69	O	SO12	89	I	MOD1
10	I	SI12	30	I	DI7	50	O	EO7	70	O	SO13	90	I	MOD0
11	I	SI11	31	I	DI6	51	O	EO8	71	O	DO0	91	I	HD
12	I	SI10	32	I	DI5	52	O	EO9	72	O	DO1	92	I	MYS
13	I	SI9	33	I	DI4	53	O	EO10	73	O	DO2	93	I	LM1
14	I	SI8	34	I	DI3	54	–	VDD	74	O	DO3	94	I	LM0
15	I	SI7	35	I	DI2	55	–	GND	75	O	DO4	95	I	EI11
16	I	SI6	36	I	DI1	56	O	EO11	76	–	GND	96	I	EI10
17	I	SI5	37	I	DI0	57	O	SO0	77	–	VDD	97	I	EI9
18	I	SI4	38	I	CKXI	58	O	SO1	78	I	$\overline{OE}$	98	I	EI8
19	I	SI3	39	I	DATA	59	O	SO2	79	I	CK	99	I	EI7
20	I	SI2	40	I	CKD	60	O	SO3	80	O	DO5	100	I	EI6



INPUT

CK ; DEVICE CLOCK (MAX 28.6MHz)

CKD ; SERIAL INTERFACE DATA CLOCK

CKXI ; SERIAL INTERFACE LATCH CLOCK

$\overline{CS}$; SERIAL INTERFACE CHIP SELECT

DATA ; SERIAL INTERFACE DATA

DI (0-11) ; DATA INPUTS

EI (0-11) ; EXPANSION DATA INPUT

HD ; MULTIPLEX TIMING CONTROL

LM (0,1) ; LIMITER CONTROL

LM1	LM0	SO OUTPUT
0	0	11 BIT
0	1	12 BIT
1	0	13 BIT
1	1	14 BIT

0 ; LOW LEVEL
1 ; HIGH LEVEL

MOD0 ; MODE CONTROL (TAP)

MODE0	FUNCTION MODE
0	ZERO INSERTED
1	NORMAL TAP

0 ; LOW LEVEL
1 ; HIGH LEVEL

MOD1 ; MODE CONTROL (CASCADE)

MODE1	FUNCTION MODE
0	PARTIAL TAP DEVICE
1	CENTER TAP DEVICE

0 ; LOW LEVEL
1 ; HIGH LEVEL

MYS ; EMULATION (H ; CXD8055 EMULATION
L ; NORMAL)

OB2S ; NUMBER FORMAT (H ; 2'S COMPLEMENT
L ; OFFSET BINARY)

$\overline{OE}$; OUTPUT ENABLE

RND ; PARTIAL SUM RUNDING BIT

SI (0-13) ; FILTER PARTIAL INPUT

OUTPUT

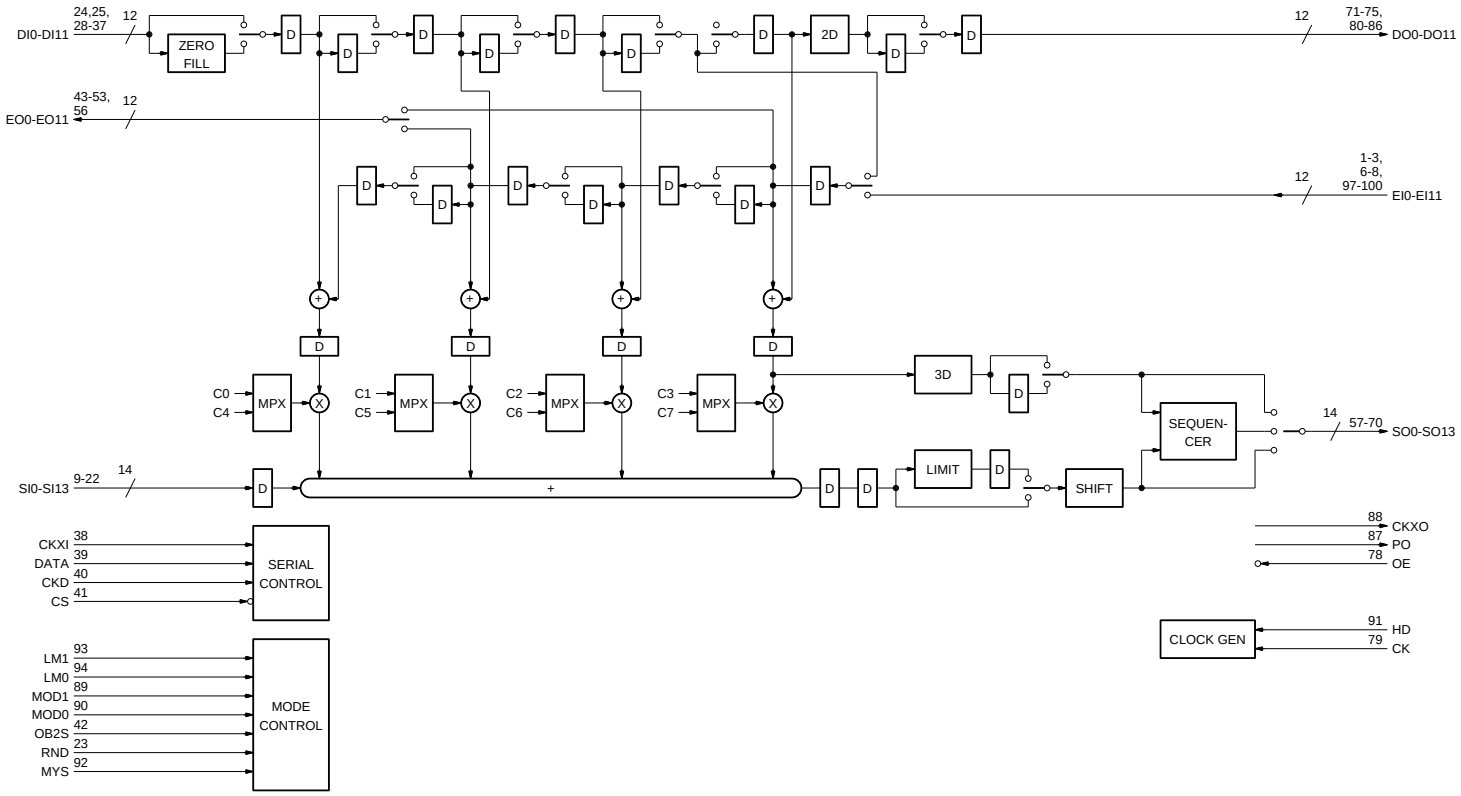
CKXO ; LATCH CLOCK OUTPUT

DO (0-11) ; CASCADE DATA OUTPUT

EO (0-11) ; EXPANSION DATA OUTPUT

PO ; PARAMETRIC OUTPUT (TEST ONLY)

SO (0-13) ; FILTER OUTPUT


DI0-DI11
24,25,
28-37
12
ZERO
FILL
D
2D
12
71-75,
80-86
DO0-DO11
EO0-EO11
43-53,
56
12
12
1-3,
6-8,
97-100
EI0-EI11
C0
C4
MPX
C1
C5
C2
C6
C3
C7
3D
SEQUEN-
CER
14
57-70
SO0-SO13
SI0-SI13
9-22
14
LIMIT
SHIFT
CKXI
DATA
CKD
CS
38
39
40
41
SERIAL
CONTROL
88
87
78
CKXO
PO
OE
LM1
LM0
MOD1
MOD0
OB2S
RND
MYS
93
94
89
90
42
23
92
MODE
CONTROL
CLOCK GEN
91
79
HD
CK