

IC INFORMATION

LC89056W-E

1/2

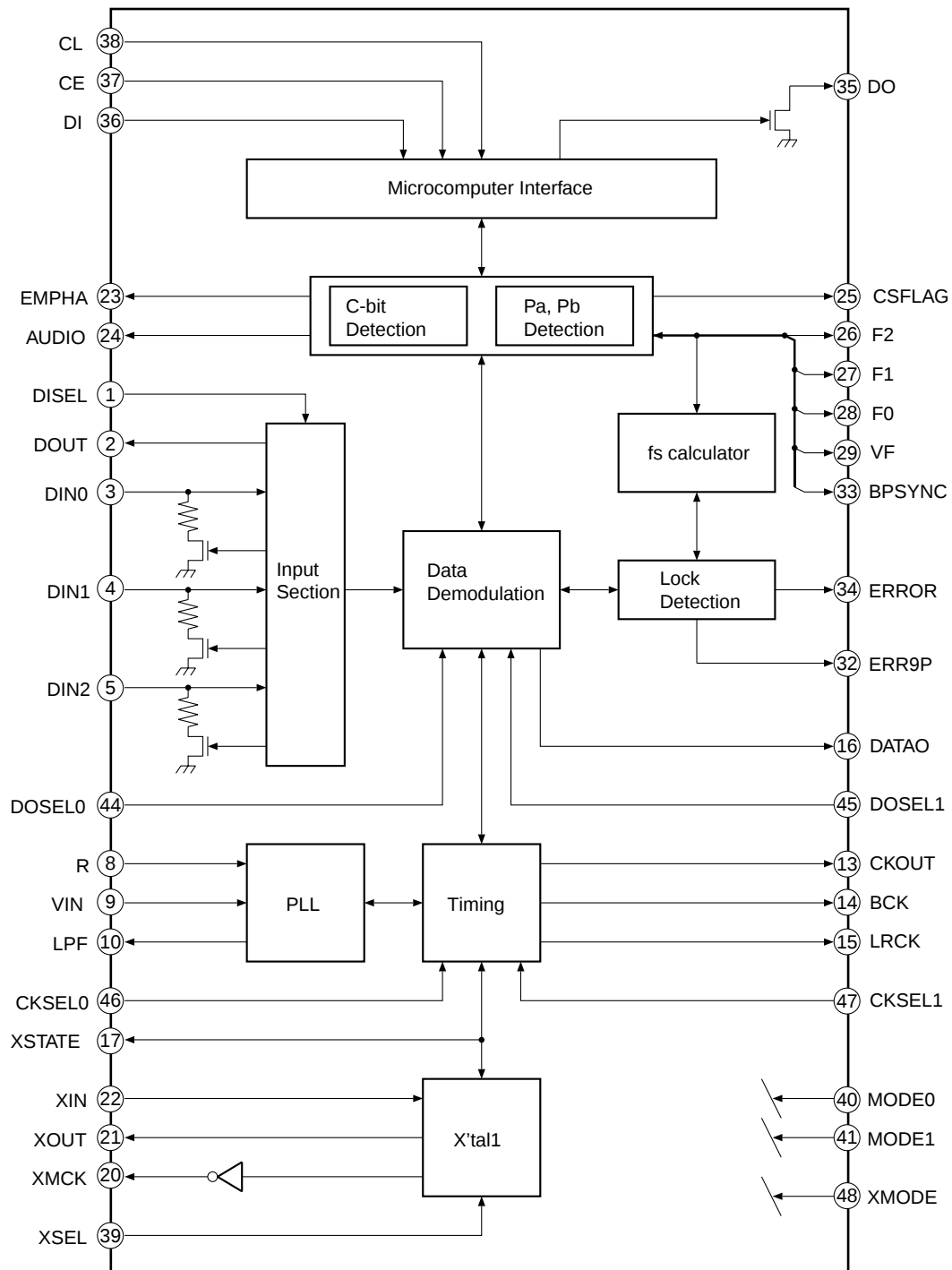
E

Function Digital Audio Interface Receiver

Type C MOS

Model XV-HTD510

● Block Diagram



IC INFORMATION		LC89056W-E		
Function	Digital Audio Interface Receiver	2/2		E
Type	C MOS	Model	XV-HTD510	

● Pin Function

No.	Pin Name	I/O	Function
1	DISEL	I	Select input of data input pin (DIN0 and DIN1)
2	DOUT	O	Input biphas data through output
3	DIN0	I	Digital data input (TTL input, pull-down resistor)
4	DIN1		
5	DIN2		
6	DGND	–	Digital GND
7	DVDD	–	Digital power supply (3.3V)
8	R	I	VCO gain control input
9	VIN	I	Setting input of VCO free-running frequency
10	LPF	O	PLL loop filter setting output
11	AVDD	–	Analog power supply (3.3V)
12	AGND	–	Analog GND
13	CKOUT	O	Clock output (256fs, 384fs, 512fs, crystal oscillation, VCO free-running oscillation)
14	BCK	O	64fs clock output
15	LRCK	O	fs clock output (L= R ch, H= L ch, I ² S= inversion)
16	DATAO	O	Data output
17	XSTATE	O	Source clock switching monitor output
18	DGND	–	Digital GND
19	DVDD	–	Digital power supply (3.3V)
20	XMCK	O	Crystal oscillation clock output (12.288MHz or 24.576MHz)
21	XOUT	O	Crystal oscillator connection output
22	XIN	I	Crystal oscillator connection input (12.288MHz or 24.576MHz)
23	EMPHA	O	Emphasis information output of channel status
24	AUDIO	O	Bit 1 (non-PCM data detection bit) output of channel status
25	CSFLAG	O	Lead 40-bit update flag output of channel status
26	F0	O	Calculation result output of input fs
27	F1		
28	F2		
29	VF	O	Valid flag output
30	DVDD	–	Digital power supply (3.3V)
31	DGND	–	Digital GND
32	ERR9P	O	Nine times continuous data transfer error flag output (L= error)
33	BPSYNC	O	Sync. signal output of non-PCM burst, preamble Pa, Pb, Pc, Pd
34	ERROR	O	PLL lock error, data error flag output (H= error)
35	DO	O	Readout data output of microcomputer IF
36	DI	I	Writing data input of microcomputer IF
37	CE	I	Chip enable input of microcomputer IF
38	CL	I	Clock input of microcomputer IF
39	XSEL	I	Select input of [XIN] crystal oscillator frequency (24.576MHz or 12.288MHz)
40	MODE0	I	Mode setting input
41	MODE1		
42	DGND	–	Digital GND
43	DVDD	–	Digital power supply (3.3V)
44	DOSEL0	I	Select input of output data format
45	DOSEL1		
46	CKSEL0	I	Select input of output clock
47	CKSEL1		
48	XMODE	I	System reset input