Single-Channel Subscriber Line Interface Circuit (SLIC)

Description

California Triangle provides a complete external exchange station (FXS) single-channel telephone interface solution, compliant with all relevant global standards. Compared to other competitors in the industry, the device is designed to use a capacitive boost tracking negative power supply, featuring low power consumption, low cost, and small area. Self-diagnosis and loop testing (MLT) are achieved through built-in DSP, monitoring ADC, and test load, providing better audio quality and DTMF (Dual Tone Multi Frequency) detection than PSTN (Public Switched Telephone Network).

Product view

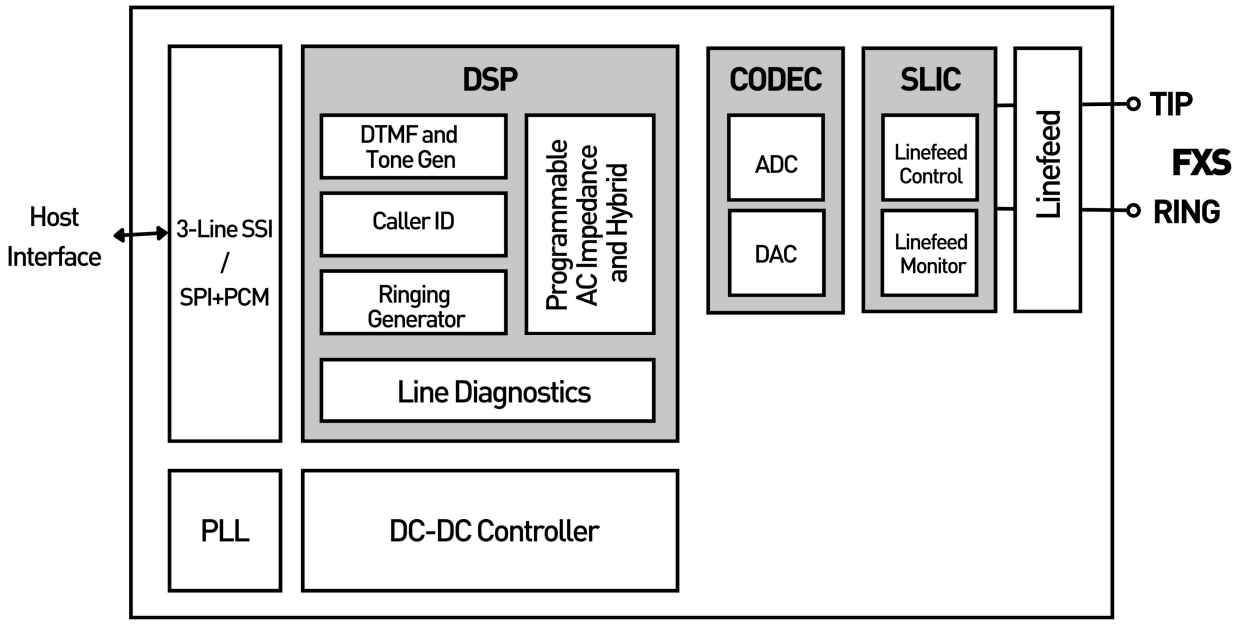
1CH-A SLIC View

1CH-B SLIC View

Key Performance Indicators

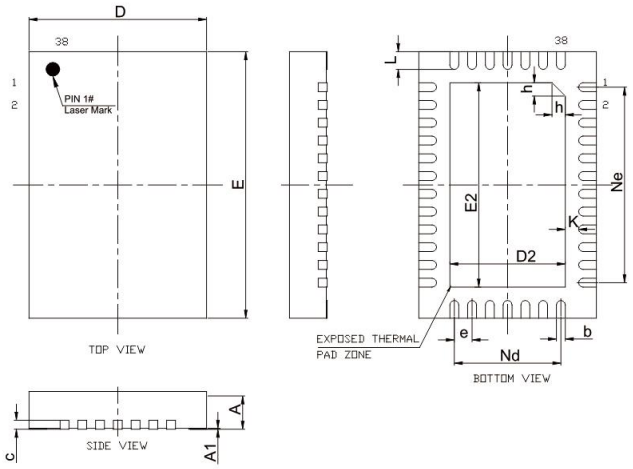
Model	Number of Voice Channels	Host Interface	Speech Coding	Caller ID Display	Dialing Detection	Line Monitoring	Temperature Range	Maximum Voltage	Packaging
1CH-A SLIC	1	SSI	A-Law μ-Law Linear PCM	DTMF FSK	DTMF	Support	0~+70C	-100V	QFN38
1CH-B SLIC	1	SPI/PCM	A-Law μ-Law Linear PCM	DTMF FSK	DTMF	Support	0~+70C	-100V	QFN42

Functional Diagram

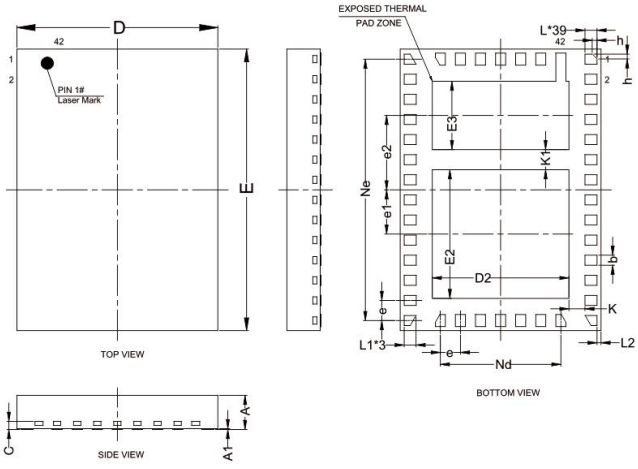


CALIFORNIA TRIANGLE

1CH-A SLIC Packaging Diagram



1CH-B SLIC Packaging Diagram



1CH-A SLIC Packaging Information

SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.80	0.85	0.90
A1	0	0.02	0.05
b	0.15	0.20	0.25
c	0.203REF		
D	3.90	4.00	4.10
D2	2.50	2.60	2.70
e	0.40BSC		
Nd	2.40BSC		
Ne	4.40BSC		
E	5.90	6.00	6.10
E2	4.50	4.60	4.70
L	0.35	0.40	0.45
h	0.25	0.30	0.35
K	0.30REF		

1CH-B SLIC Packaging Information

SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.80	0.85	0.90
A1	0	0.02	0.05
b	0.20	0.25	0.30
c	0.203REF		
D	4.90	5.00	5.10
D2	3.30	3.40	3.50
e	0.50BSC		
e1	1.10BSC		
e2	1.85BSC		
Nd	3.00BSC		
Ne	6.50BSC		
E	6.90	7.00	7.10
E2	3.10	3.20	3.30
E3	1.60	1.70	1.80
L	0.25	0.30	0.35
L1	0.195	0.295	0.395
L2	0.10REF		
h	0.07	0.12	0.17
K	0.40REF		
K1	0.50REF		