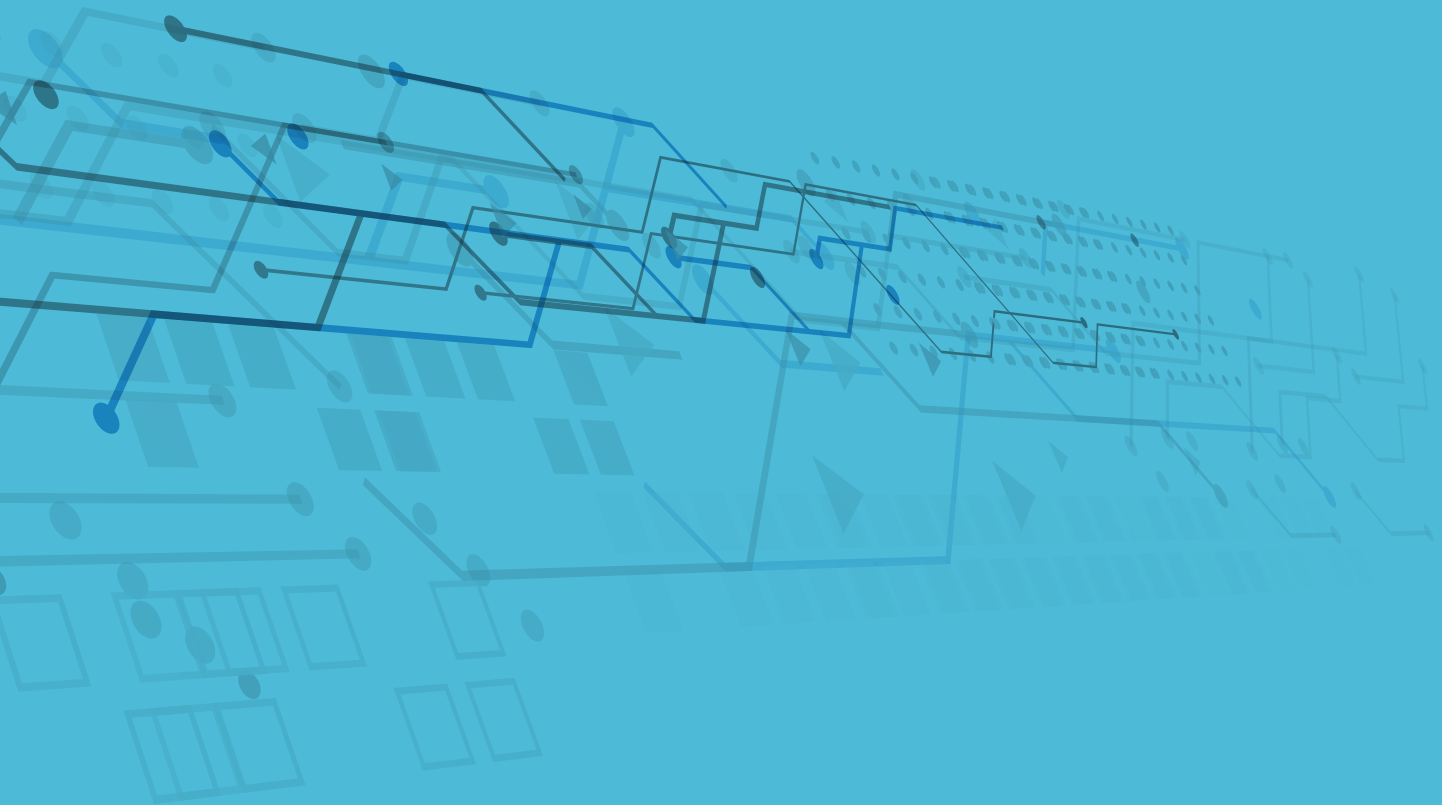
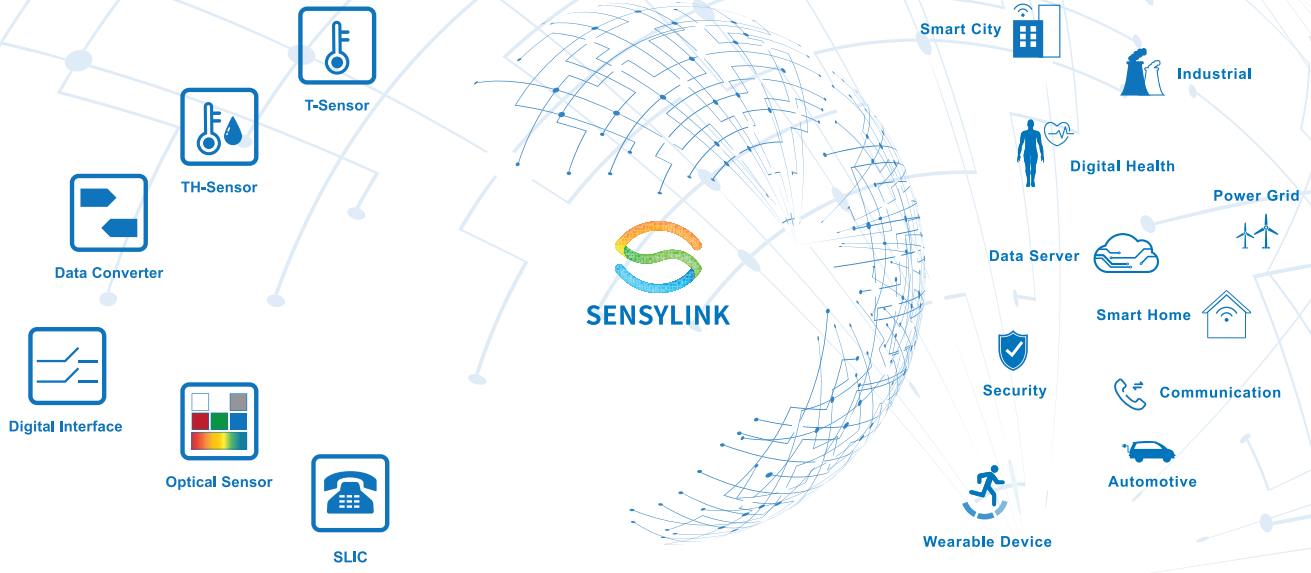


20 24

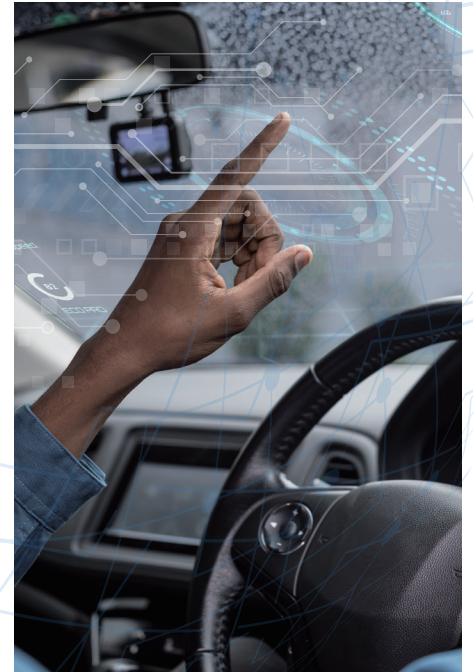
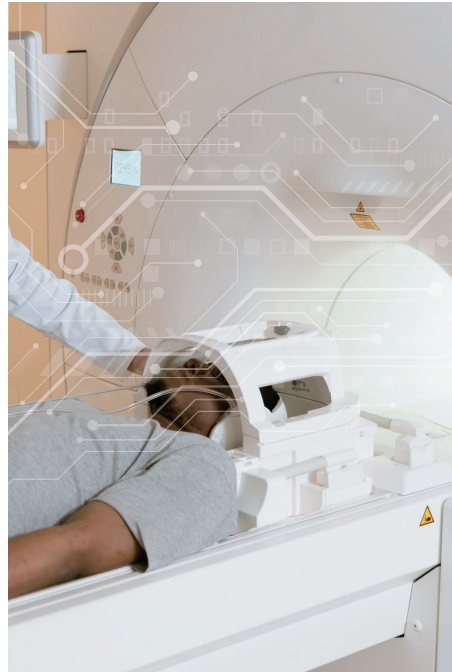
Product Selection Guide

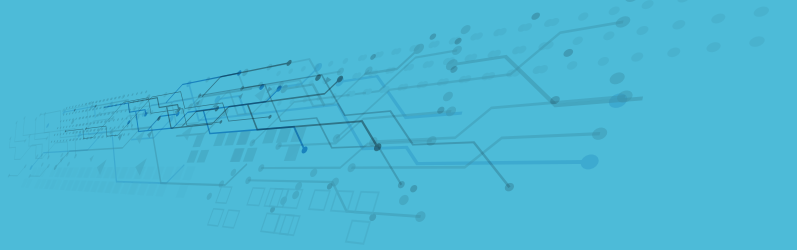


 SENSYLINK

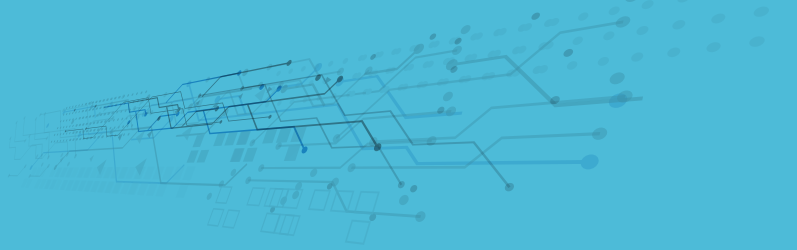


A High Performance ICs Design Company Focusing on Sensor Chips and Mixed-Signal Chips





- 03 Digital Temperature Sensor (Local Only)**
- 04 Digital Temperature Sensor (Local+Remote)**
- 05 Analog Temperature Sensor**
- 06 Temperature Switch**
- 06 ThermoCouple Conditioning ICs**
- 07 System Temperature/ Voltage / FanSpeed Monitor**
- 07 Temperature/ Fan Control ICs**
- 08 System Level Fan Speed Monitor and Controller ICs**
- 08 Voltage/Current/Power Monitor**
- 09 Current Sense Amplifier**
- 09 Temperature & Humidity Sensor**
- 10 Digital Ambient Light Sensor**
- 10 Hall-Effect Switch**

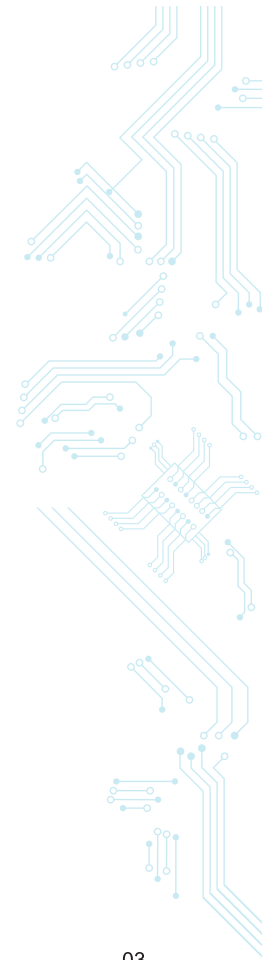


- 10 **General ADC**
- 11 **Voltage Reference**
- 11 **I2C/SMBus GPIO EXPANDER**
- 12 **I2C/SMBus Switch/Mux/Master Selector**
- 12 **I2C/SMBus Buffer / Repeater**
- 13 **Bus Voltage Level Translator**
- 13 **SLIC**
- 14 **DDR4 Module SPD Hub Chip**
- 14 **Security Authenticators**
- 14 **Single-Wire EEPROM**
- 15 **Automotive-Grade Temperature Sensor**

- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor

Digital Temperature Sensor (Local Only)

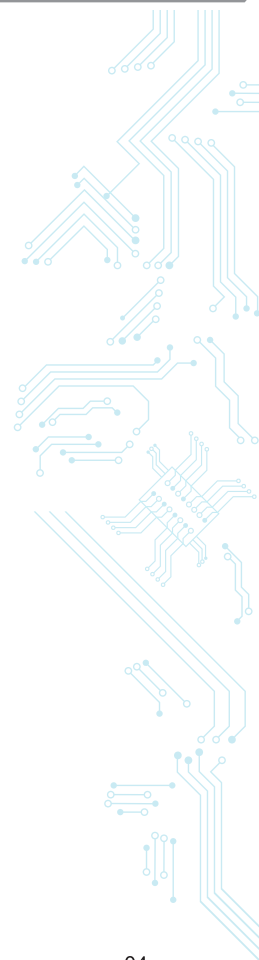
PN	VCC (V)	Interface	Accuracy (°C)	Package
CT1801	1.8 to 5.5	Single-Wire	±0.1	CSP-4
CT1711	1.8 to 5.5	S-Wire	±0.1	MCLGA 3x3-4
CT7117	1.4 to 5.5	I2C/SMBus	±0.1	CSP-4
CT75	1.75 to 5.5	I2C/SMBus	±0.5	SOP-8 MSOP-8 DFN-3x3-8 DFN-2x2-8
CT7112A/B	1.75 to 5.5	I2C/SMBus	±0.5	DFN-1.6x1.6-6
CT7112C	1.75 to 5.5	I2C/SMBus	±0.5	SOT563-6 SOT-23-6
CT7113	1.4 to 5.5	I2C/SMBus	±1.0	CSP-4 SOT-23-5
CT7118	1.4 to 5.5	I2C/SMBus	±0.75	CSP-6 SOT-23-6
CT7525	1.4 to 5.5	I2C/SMBus	±1.0	CSP-4
CT1820	1.8 to 5.5	Single-Wire	±0.5	SOT-23 TO-92 TO-92S TO-92S-2 MSOP-8
CT1820B	1.8 to 5.5	Single-Wire	±0.5	TO-92 TO-92S-2 SOP-8 MSOP-8
CT1820S	1.8 to 5.5	Single-Wire	±0.5	TO-92
CT1830	2.1 to 5.5	Single-Wire	±0.5	TO-92 SOT-23-3
CT1720	1.8 to 5.5	S-Wire	±1.0	SOT-23 TO-92S
CT1721	1.4 to 5.5	Pulse Count	±0.5	SOT-23 TO-92S-2 CSP-4 DFN-1.6x0.8-2
CT7511	I/O: 1V Core: 1.8V	I ³ C	±0.5	CSP-6



Digital Temperature Sensor (Local+Remote)

PN	VCC (V)	Interface	Accuracy (°C)	Channel	Package
CT7318	1.75 to 5.5	I2C/SMBus	±1.0	1* Local + 1* Remote	SOP-8 MSOP-8 DFN-3x3-8
CT7319	1.7 to 5.5	I2C/SMBus	±1.0	1* Local + 1* Remote	SSOP-16
CT7451	1.7 to 5.5	I2C/SMBus	±1.0	1* Local + 1* Remote	DFN-2x2-8
CT7481	1.75 to 5.5	I2C/SMBus	±1.0	1* Local + 2* Remote	MSOP-10
CT7423	1.8 to 5.5	I2C/SMBus	±1.0	1* Local + 3* Remote	SOP-8
CT7424	1.7 to 5.5	I2C/SMBus	±1.0	1* Local + 4* Remote	QFN-3x3-16
CT7425	1.7 to 5.5	I2C/SMBus	±1.0	1* Local + 5* Remote	QFN-3x3-16
CT7426	1.7 to 5.5	I2C/SMBus	±1.0	1* Local + 6* Remote	QFN-3x3-16
CT7427	1.7 to 5.5	I2C/SMBus	±1.0	1* Local + 7* Remote	QFN-3x3-16
CT7428	1.7 to 5.5	I2C/SMBus	±1.0	1* Local + 8* Remote	QFN-3x3-16
CT7468	1.7 to 5.5	I2C/SMBus	±1.0	1* Local + 8* Remote	QFN-3x3-16
CT7431/A	2.7 to 5.5	I2C/SMBus	±1.0	1* Local + 1* Remote	MSOP-8 DFN-3x3-8
CT7432/A	2.7 to 5.5	I2C/SMBus	±1.0	1* Local + 2* Remote	MSOP-10 DFN-3x3-10
CT7433/A	2.7 to 5.5	I2C/SMBus	±1.0	1* Local + 3* Remote	MSOP-10 DFN-3x3-10
CT7453/A	2.7 to 5.5	I2C/SMBus	±1.0	1* Local + 3* Remote	MSOP-10 DFN-3x3-10

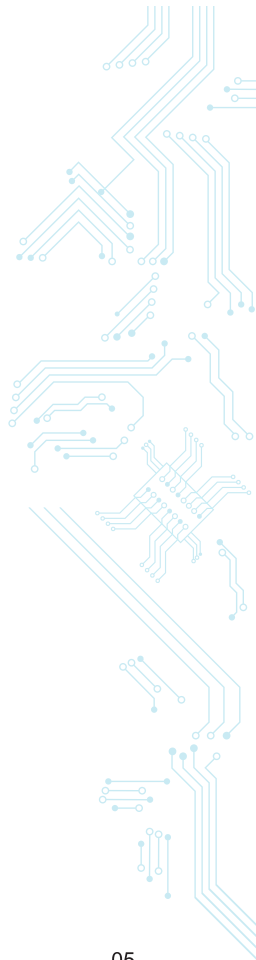
- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)**
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor



- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor**
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor

Analog Temperature Sensor

PN	VCC (V)	Interface	Temperature@ (T _A =10°C~30°C)	Slope Gain (mV/°C)	Vout@ 25°C (mV)	Package
CT7035A	1.8 to 5.5	Analog	Accuracy: ±0.5°C	19.5	887.5	SOT-23 SC70-5
CT7035B	1.8 to 5.5	Analog	Accuracy: ±0.5°C	10	850	SOT-23 SC70-5
CT7035C	1.8 to 5.5	Analog	Accuracy: ±0.5°C	6.25	580	SOT-23 SC70-5
CT7035D	1.8 to 5.5	Analog	Accuracy: ±0.5°C	-5.5	895.5	SOT-23 SC70-5
CT7035E	1.8 to 5.5	Analog	Accuracy: ±0.5°C	-8.2	1365	SOT-23 SC70-5
CT7035F	1.8 to 5.5	Analog	Accuracy: ±0.5°C	-10.9	1834.5	SOT-23 SC70-5
CT7035G	1.8 to 5.5	Analog	Accuracy: ±0.5°C	-11.77	1574	SOT-23 SC70-5
CT7035H	1.8 to 5.5	Analog	Accuracy: ±0.5°C	-13.6	2293	SOT-23 SC70-5
CT7035J	1.8 to 5.5	Analog	Accuracy: ±0.5°C	10	750	SOT-23 SC70-5
CT7035K	1.8 to 5.5	Analog	Accuracy: ±0.15°C	-5.8	1914.7	SOT-23 SC70-5



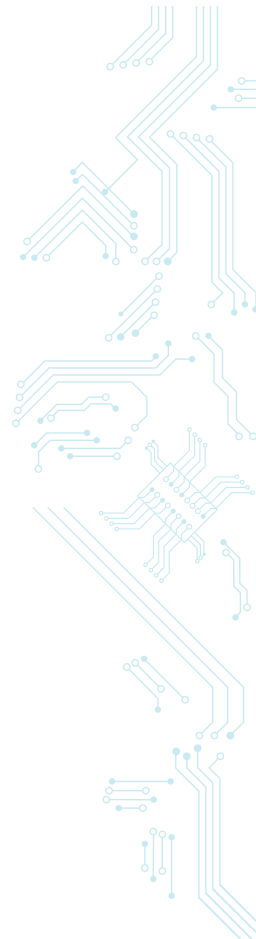
Temperature Switch

PN	VCC (V)	Accuracy (°C)	Trigger Temperature	Output Logic	Package
CT1722	1.75 to 5.5	±0.5°C	Pre-ProgramRange: -40°C to 125°C	Active Low, (OD, external resistor)	CSP-3 SOT-23-5
CT1723	1.4 to 5.5	±0.25°C	Pre-ProgramRange: 0°C to 125°C	Active Low, (OD, external resistor)	CSP-4 SOT-23-5
CTS7509	2.5 to 5.5	±2.0°C	Resistor ProgramRange: -40°C to 125°C	Active Low, (OD, external resistor)	SOT-23-5
CTS7510	2.5 to 5.5	±2.0°C	Resistor ProgramRange: -40°C to 125°C	Active Low, (OD, internal resistor) Active Low, (Push-pull) Active High, (Push-pull)	SOT-23-6

- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch**
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor

ThermoCouple Conditioning ICs

PN	VCC (V)	Interface	Temperature Spec	Protection	Description	Package
CT1780	3.0 to 5.5	1-wire	Thermocouple Types:K,-J,-N,-T,-E- Resolution:0.25°C, 14bit ADC Internal Cold-Junction Range: -40 to 125°C	Detect Open Thermocouple	Cold-Junction Compensated, Single-Wire Thermocouple-to-Digital Convert	DFN-4x3-10



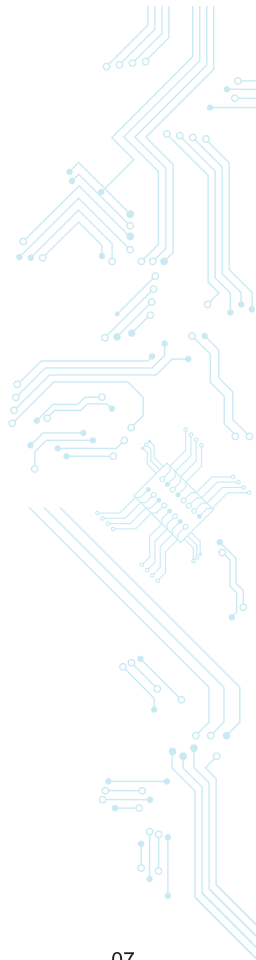
- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor**
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor

System Temperature/ Voltage/ FanSpeed Monitor

PN	VCC (V)	Interface	Temperature	Analog Voltage	Fan Speed	Logic	Package
CT80	2.7 to 5.5	I2C/SMBus	1-CH, Local only Accuracy: 1.0°C Resolution: 0.0625°C	7-CH Range: 0-2.56V or 0-VCC Resolution: 2.56mV or 6.0mV	2-CH	3-CH Input 2-CH Output	TSSOP-24

Temperature/ Fan Control ICs

PN	VCC (V)	Interface	Temperature	Fan control	Outputs Fan Drive	Package
CTF2301A	3.0 to 3.6	I2C/SMBus	1-CH Local 1-CH Remote Lo_Resolution:0.0625°C Re_Resolution:0.125°C Lo_Accuracy:±0.1°C Re_Accuracy:±1°C Range: -40 to 125°C	Temperature-based Fan Speed Control PWM Freq:22.7Hz~180kHz Duty Cycle:0~100% TCRIT Function	1 PWM	MSOP-10 DFN-3x3-10
CTF2301B	3.0 to 3.6	I2C/SMBus	1-CH Local 1-CH Remote Lo_Resolution:0.0625°C Re_Resolution:0.125°C Lo_Accuracy:±0.1°C Re_Accuracy:±1°C Range: -40 to 125°C	Temperature-based Fan Speed Control PWM Freq:22.7Hz~180kHz Duty Cycle:0~100%	1 PWM	MSOP-10 DFN-3x3-10
CTF2302	3.0 to 5.0	I2C/SMBus	1-CH Local 4-CH Remote Lo_Resolution:0.0625°C Re_Resolution:0.0625°C Lo_Accuracy:±1°C Re_Accuracy:±2°C Range: -40 to 125°C	Temperature-based Fan Speed Control PWM Freq:10Hz~40kHz Duty Cycle:0~100% Duty Cycle Resolution:0.39% THERM Temperature with Hysteresis Fan Failures Detect	2 PWM	QFN-3x3-16-A
CTF2304	3.0 to 5.0	I2C/SMBus	1-CH Local 8-CH Remote Lo_Resolution:0.0625°C Re_Resolution:0.0625°C Lo_Accuracy:±1°C Re_Accuracy:±1°C Range: -40 to 125°C	Temperature-based Fan Speed Control PWM Freq:10Hz~40kHz Duty Cycle:0~100% Duty Cycle Resolution:0.39% THERM Temperature with Hysteresis Fan Failures Detect	4 PWM	QFN-3x3-24



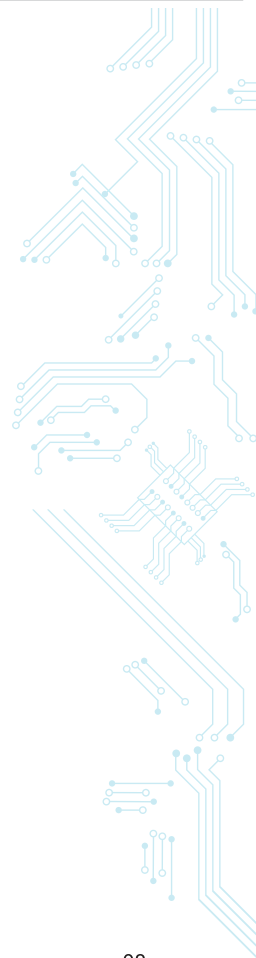
System Level Fan Speed Monitor and Controller ICs

PN	VCC (V)	Interface	Fan control	Control Mode	Outputs Fan Drive	Tach Input Num.	GPIO Num.	Package
CTF2816	3.0 to 3.6	I2C/SMBus	PWM Freq:1kHz~50kHz Duty Cycle:0~100%, 8 bits Duty Cycle Resolution:0.39% Intelligent Fan Failures Detect SMBus & I2C	Takeover Mode or Fixed-Freq	6 PWM	12	-	QFN4x4-32
CTF2836	3.0 to 3.6	I2C/SMBus	PWM Freq:1kHz~50kHz Duty Cycle:0~100%, 8 bits Duty Cycle Resolution:0.39% Intelligent Fan Failures Detect SMBus & I2C	Takeover Mode or Fixed-Freq	6 PWM	12	21	QFN5x5-36
CTF2838	3.0 to 3.6	I2C/SMBus	PWM Freq:1kHz~50kHz Duty Cycle:0~100%, 8 bits Duty Cycle Resolution:0.39% Intelligent Fan Failures Detect SMBus & I2C	Takeover Mode or Fixed-Freq	8 PWM	16	21	QFN6x6-64

- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs**
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor

Voltage/Current/Power Monitor

PN	VCC (V)	Interface	Channel No.	Resolution (bit)	Gain (V/V)	Common Mode Voltage (V)	Package
CAD2719	2.7 to 5.5	I2C/SMBus	1	12	1, 0.5, 0.25, 0.125	0 to 26	SOP-8 SOT23-8
CAD2720	2.7 to 5.5	I2C/SMBus	1	12	1, 0.5, 0.25, 0.125	0 to 26	MSOP-10 DFN-3x3-10
CAD2726	2.7 to 5.5	I2C/SMBus	1	16	1	0 to 36	MSOP-10 DFN-3x3-10
CAD2730	2.7 to 5.5	I2C/SMBus	1	16	1	0 to 36	QFN 3x3-16 MSOP-10
CAD27323	2.7 to 5.5	I2C/SMBus	3	13	1	0 to 26	QFN 4x4-16
CAD27334	2.7 to 5.5	I2C/SMBus	4	16	1	0 to 32	QFN 4x4-16 CSP-16



- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier**
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor

Current Sense Amplifier

PN	Common-mode voltage (V)	Supply voltage (V)	Input offset (\pm) (max) (μ V)	Voltage gain (V/V)	CMRR (min) (dB)	Bandwidth (kHz)	Gain error (%)	Package
CLA2215	-0.3 to 26	2.7 to 26	60	75	105	40	0.4,0.9	SOT-SC70 UQFN
CLA2216	1.8 to 5.5	1.8 to 5.5	75,100	25,50, 100,200	90	2.5,5, 10,20	0.2	DSBGA UQFN
CLA2212	-0.3 to 26	2.7 to 26	35	1000	105	4	0.4,0.9	SOT-SC70 UQFN
CLA2211	-0.3 to 26	2.7 to 26	60	500	105	7	0.4,0.9	SOT-SC70 UQFN
CLA2214	-0.3 to 26	2.7 to 26	60	100	105	30	0.4,0.9	SOT-SC70 UQFN
CLA2213	-0.3 to 26	2.7 to 26	100	50	100	80	0.4,0.9	SOT-SC70 UQFN
CLA2210	-0.3 to 26	2.7 to 26	35	200	105	14	0.4,0.9	SOT-SC70 UQFN
CLA2281	-4 to 110	2.7 to 20	150	0.07	20,50, 100,200, 500	120	2.25	SOT-23

Temperature & Humidity Sensor

PN	VCC (V)	Interface	Temperature (typ.)($^{\circ}$ C)	Humidity (typ.)(%RH)	I_Aoc/1Hz	I_SD	ADD	Package
CHT8305E	2.5 to 5.5	I2C	\pm 0.2	\pm 2.0@50%RH	1.5uA	0.05uA	4	DFN-3x3-6
CHT8315	1.35 to 5.5	I2C/SMBus	\pm 0.2	\pm 1.5@20%RH-80%RH	1.0uA	0.035uA	4	DFN-3x3-6
CHT8310	1.65 to 5.5	I2C/SMBus	\pm 0.2	\pm 2.0@20%RH-80%RH	2.0uA	0.055uA	4	DFN-3x3-6
CHT1305	2.2 to 5.5	Single-Wire	\pm 0.2	\pm 2.0@50%RH	2.5uA	0.1uA	/	DFN-3x3-6
CHT8550C	1.65 to 5.5	I2C/SMBus	\pm 0.2	\pm 2.5@20%RH-80%RH	2.1uA	0.05uA	/	CSP-4
CHT8325	1.8 to 5.5	I2C/SMBus	\pm 0.1	\pm 1.5@20%RH-80%RH	5.5uA	0.36uA	4	DFN-2x2-4
CHT8325-Q	1.8 to 5.5	I2C/SMBus	\pm 0.1	\pm 1.5@20%RH-80%RH	5.5uA	0.36uA	4	DFN-2x2-4
CHT8336	1.8 to 5.5	Analog	\pm 0.2	\pm 2.0@20%RH-80%RH	220uA	/	/	DFN-2x2-4

Digital Ambient Light Sensor

PN	VCC (V)	Resolution	Measurement	Power consumption	Feature	Package
COA3001	1.6 to 3.6	0.01 lux	0.01 lux to 83 k lux	10uA(working)/0.5(standby)	550nm, 99% IR rejection	DFN-2x2-6
COA3001-Q	1.6 to 3.6	0.01 lux	0.01 lux to 83 k lux	10uA(working)/0.5(standby)	Automotive AEC-Q100	DFN-2x2-6
COA3004	1.6 to 3.6	0.01 lux	0.01 lux to 83 k lux	10uA(working)/0.5(standby)	550nm, 99% IR rejection@+/-85°	DFN-2x2-6
COA3007	1.6 to 3.6	0.01 lux	0.01 lux to 83 k lux	10uA(working)/0.5(standby)	Ultra small size	CSP-4

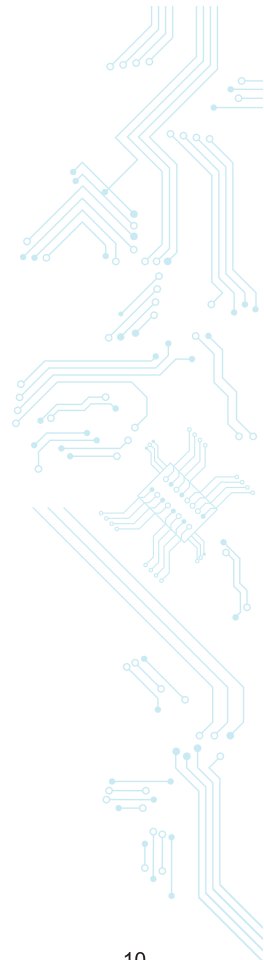
Hall-Effect Switch

PN	VCC (V)	Operating Temperature (°C)	Polarity	B _{OPS}	B _{RPS}	Hyst	Package
CAH1912	3 to 3.6	-40 to 85	Omnipolar	21Gs / 30Gs / 39Gs	14Gs / 23Gs / 30Gs	7Gs	DFN1.6x1.2-4 SOT23-3 SOT-23

General ADC

PN	VCC (V)	Interface	Resolution (bit)	Channel	Description	Package
CAD2512A04	3.0 to 5.5	I2C/SMBus	12	4-CH	Internal Temperature Sensing: ±1°C Accuracy 9 selectable addresses	MSOP-8 DFN 3x3-8
CAD2512A08	3.0 to 5.5	I2C/SMBus	12	8-CH	Internal Temperature Sensing: ±1°C Accuracy 9 selectable addresses	TSSOP-16 QFN-3x3-16

- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor**
- Hall-Effect Switch
- General ADC**
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor



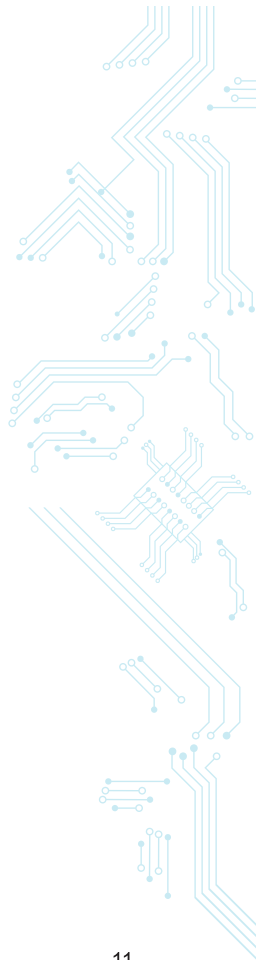
- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor

Voltage Reference

PN	Rating	Output Voltage	V _{in} (min)(V)	V _{in} (max)(V)	I _q (max)(uA)	Accuracy (max)	TC (-40~125°C)(ppm/°C)	Line Regulation (max)(ppm/V)	Load Regulation (max)(ppm/mA)	Output Capacitor Load (uF)	Package
CREF33	Industrial	Fixed (1.2,1.8, 2.5,3.0, 3.3)	max (Vout +0.2,1.7)	5.5	8.5	0.0015	30	50	20	0.1~10	SOT23-3

I2C/SMBus GPIO EXPANDER

PN	VCC (V)	I/O	Supply	Reset	INT	Address	I2C Address	Description	Package
CA9536	1.65 to 5.5	4bit	1	no	no	1	1000001R/W	I2C/SMBus I/O Expander	SOP-8 MSOP-8
CA9534	1.65 to 5.5	8bit	1	no	yes	8	0100A2A1A0R/W	I2C/SMBus I/O Expander with Interrupt Output	TSSOP-16 QFN4x4-16
CA9534A	1.65 to 5.5	8bit	1	no	yes	8	0111A2A1A0R/W	I2C/SMBus I/O Expander with Interrupt Output	TSSOP-16 QFN4x4-16
CA9538	1.65 to 5.5	8bit	1	yes	yes	4	11100A1A0R/W	I2C/SMBus I/O Expander with Interrupt Output, Reset	TSSOP-16
CA9554	1.65 to 5.5	8bit	1	no	yes	8	0100A2A1A0R/W	I2C/SMBus I/O Expander with Interrupt Output, Input I/O with internal pull-up	TSSOP-16 QFN4x4-16 QFN3x3-16
CA9554A	1.65 to 5.5	8bit	1	no	yes	8	0111A2A1A0R/W	I2C/SMBus I/O Expander with Interrupt Output, Input I/O with internal pull-up	TSSOP-16 QFN4x4-16 QFN3x3-16
CA9557	2.3 to 5.5	8bit	1	yes	no	8	0011A2A1A0R/W	I2C/SMBus I/O Expander with Reset	TSSOP-16 SOP-16 QFN4x4-16
CA9535	1.65 to 5.5	16bit	1	no	yes	8	0100A2A1A0R/W	I2C/SMBus I/O Expander with Interrupt Output	TSSOP-24 QFN4x4-24
CA9539	1.65 to 5.5	16bit	1	yes	yes	4	11101A1A0R/W	I2C/SMBus I/O Expander with Interrupt Output, Reset	TSSOP-24 QFN4x4-24
CA9555	1.65 to 5.5	16bit	1	no	yes	8	0100A2A1A0R/W	I2C/SMBus I/O Expander with Interrupt Output, Input I/O with internal pull-up	TSSOP-24 QFN4x4-24
CA6408	1.65 to 5.5	8bit	2	yes	yes	2	010000A0R/W	I2C/SMBus I/O Expander with Interrupt Output, Reset, Voltage-Level Translation	TSSOP-16 QFN3x3-16
CA6416	1.65 to 5.5	16bit	2	yes	yes	2	010000A0R/W	I2C/SMBus I/O Expander with Interrupt Output, Reset, Voltage-Level Translation	TSSOP-24 QFN4x4-24 QFN3x3-24



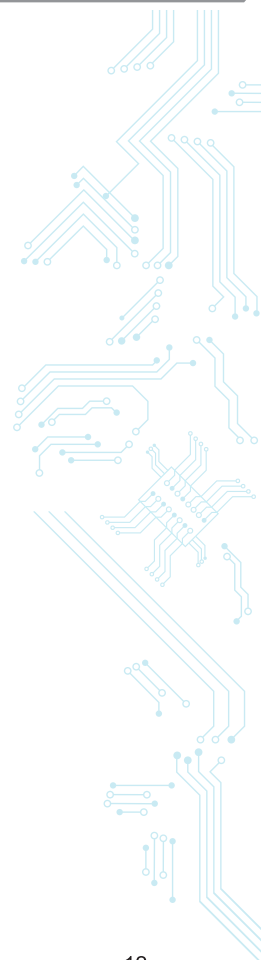
I2C/SMBus Switch/Mux/Master Selector

PN	VCC (V)	M:S	Reset	INT	I_standby	Address	I2C Address	Description	Package
CA9641	2.3 to 3.6	2:1	1	3	100uA	112	A6A5A4A3A2A1A0 _{R/W}	2 master to 1 slaves I2C/SMBus Master Selector with an Arbiter Function	TSSOP-16 QFN3X3-16
CA9542	1.65 to 5.5	1:2	0	3	1.5uA	8	1110A2A1A0 _{R/W}	1 master to 2 slaves I2C/SMBus Multiplexer with Interrupt	SOP-14 TSSOP-14
CA9543	1.65 to 5.5	1:2	1	3	1.5uA	4	11100A1A0 _{R/W}	1 master to 2 slaves I2C/SMBus Switch with Interrupt and Reset	SOP-14 TSSOP-14
CA9544	1.65 to 5.5	1:4	0	5	1.5uA	8	1110A2A1A0 _{R/W}	1 master to 4 slaves I2C/SMBus Multiplexer with Interrupt	SOP-20 TSSOP-20 QFN3x3-20 QFN5x5-20
CA9545	1.65 to 5.5	1:4	1	5	1.5uA	4	11100A1A0 _{R/W}	1 master to 4 slaves I2C/SMBus Switch with Interrupt and Reset	SOP-20 TSSOP-20
CA9546	1.65 to 5.5	1:4	1	0	1.5uA	8	11100A1A0 _{R/W}	1 master to 4 slaves I2C/SMBus Switch with Reset	SOP-16 TSSOP-16 QFN4x4 -16
CA9547	1.65 to 5.5	1:8	1	0	1.5uA	8	11100A1A0 _{R/W}	1 master to 8 slaves I2C/SMBus Multiplexer with Reset	TSSOP-24 QFN4x4 -24
CA9548	1.65 to 5.5	1:8	1	0	1.5uA	8	11100A1A0 _{R/W}	1 master to 8 slaves I2C/SMBus Switch with Reset	TSSOP-24 QFN4x4 -24

I2C/SMBus Buffer / Repeater

PN	VCCA (V)	VCCB (V)	Freq (Hz)	CH	Enable	Description	Package
CA9511	2.3 to 5.5	/	1M	2	1	Hot-swappable FM+ I2C/SMBus Buffer	SOP-8 MSOP-8
CA9512	2.3 to 5.5	2.3 to 5.5	1M	2	0	Hot-swappable FM+ I2C/SMBus Buffer with Level Shifting	MSOP-8
CA9617	0.8 to 5.5	2.2 to 5.5	1M	2	1	Level Translating FM+ I2C-bus Repeater	SOP-8 MSOP-8 DFN2X3-8

- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector**
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor



- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator**
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor

Bus Voltage Level Translator

PN	VCCA (V)	VCCB(V)	DIR Ctrl	CH	Description	Package
CAG92102F	0 to 5	0 to 5	AUTO	2bit	2-Bit Bidirectional Voltage-Level Translator with Auto-Direction Sensing for Open-Drain and Push-Pull Applications	MSOP-8 DFN3X4-8 VSSOP-8
CAG94204F	0 to 5	0 to 5	AUTO	4bit	4-Bit Bidirectional Voltage-Level Translator with Auto-Direction Sensing for Open-Drain and Push-Pull Applications	TSSOP-14 QFN2X1.7-12
CAG98108F	0 to 5	0 to 5	AUTO	8bit	8-Bit Bidirectional Voltage-Level Translator with Auto-Direction Sensing for Open-Drain and Push-Pull Applications	TSSOP-20
CAG92102S	1.65 to 3.6	2.3 to 5.5	AUTO	2bit	2-Bit Bidirectional Voltage-Level Translator with Auto-Direction Sensing for Open-Drain and Push-Pull Applications	VSSOP-8
CAG94104S	1.65 to 3.6	2.3 to 5.5	AUTO	4bit	4-Bit Bidirectional Voltage-Level Translator with Auto-Direction Sensing for Open-Drain and Push-Pull Applications	TSSOP-14
CAG98108S	1.65 to 3.6	2.3 to 5.5	AUTO	8bit	8-Bit Bidirectional Voltage-Level Translator with Auto-Direction Sensing for Open-Drain and Push-Pull Applications	TSSOP-14
CAG94014GY	3 to 3.6	0.5 to VCC/2	DIR	4bit	4-bit LVTTTL to GTL Transceiver	TSSOP-14
CA9306Y	1.2 to 3.3	1.8 to 5.5	AUTO	2bit	Dual Bidirectional I2C Bus and SMBus Voltage-Level Translator	MSOP-8 VSSOP-8
CA99306	0.9 to 3.3	1.8 to 5.5	AUTO	2bit	Dual Bidirectional I3C Bus and SMBus Voltage-Level Translator	SOT23-8 VSSOP-8

SLIC

PN	FXS Port	Interface	Vbat	Package
CLE2171	1	PCM+SPI	-100V	QFN-5x7-39
CLE2171V	1	PCM+SPI / 4 wire interface	-100V	QFN-5x6-44
CLE2191	1	3 wire SSI	-100V	QFN-4X6-38

DDR4 Module SPD Hub Chip

PN	Supply Voltage	Temperature Accuracy	EEPROM Size	Byte Write Time	Write Cycles	Data Retention	Package
CT7524	2.2V to 3.6V	±0.5°C over +75°C to+95°C ±0.75°C over -40°C to +125°C	4 Kb	<5ms	>1M cycles	>40 years	DFN 2x3-8

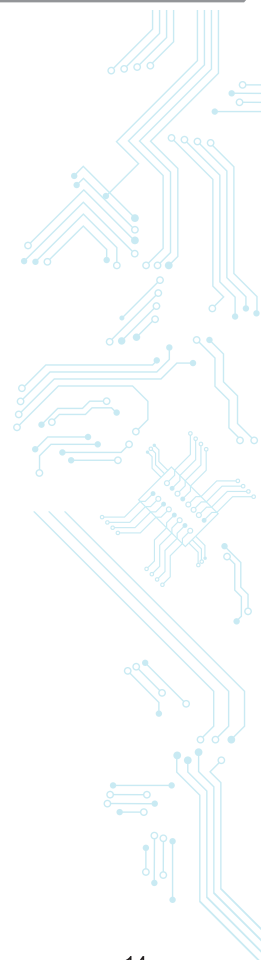
Security Authenticators

PN	Input Voltage(V)	Interface	EEPROM	Security Memory	HMAC Algorithm	ESD(KV)	Description	Package
CSA2815	1.8 to 3.3	1-Wire	0.5kbits	Authentication Mode+ Write and Read Protect	SHA-256	±8kV HBM	Authentication of Network-Attached Appliances ; Reference Design License Management ; System Intellectual Property Protection ; Secure Feature Setting for Configurable Systems	TDFN TSOC

Single-Wire EEPROM

PN	Input Voltage(V)	Interface	EEPROM	Counter	Identification ID	ESD(KV)	Description	Package
CSA2431	2.8 to 5.25	1-Wire	1kbits	17bits One-Time Settable Decrement-Only Counter	64bits	±8kV Contact, ±15kV Air	Accessory/PCB Identification ; Medical Sensor Calibration Data Storage ; Ink and Toner Print Cartridge Identification ; After-Market Management of Consumables	SFN TDFN TSOC

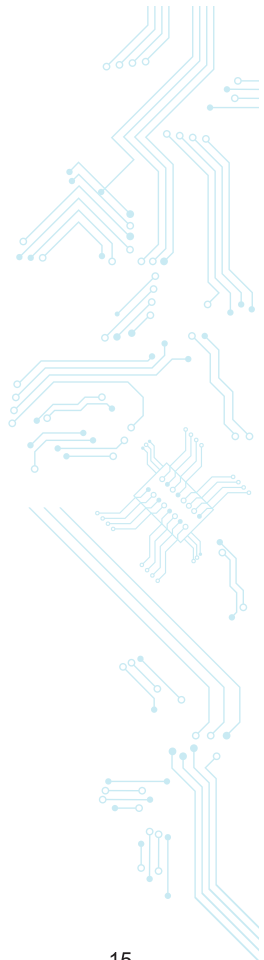
- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor



- Digital Temperature Sensor (Local Only)
- Digital Temperature Sensor (Local+Remote)
- Analog Temperature Sensor
- Temperature Switch
- ThermoCouple Conditioning ICs
- System Temperature/ Voltage / FanSpeed Monitor
- Temperature/ Fan Control ICs
- System Level Fan Speed Monitor and Controller ICs
- Voltage/Current/Power Monitor
- Current Sense Amplifier
- Temperature & Humidity Sensor
- Digital Ambient Light Sensor
- Hall-Effect Switch
- General ADC
- Voltage Reference
- I2C/SMBus GPIO EXPANDER
- I2C/SMBus Switch/Mux/Master Selector
- I2C/SMBus Buffer / Repeater
- Bus Voltage Level Translator
- SLIC
- DDR4 Module SPD Hub Chip
- Security Authenticators
- Single-Wire EEPROM
- Automotive-Grade Temperature Sensor

Automotive-Grade Temperature Sensor

PN	Channel No.	Accuracy	Interface	Verification	Package
CT75-Q	Local	±0.5°C over 0°C to 50°C ±1°C over -20°C to 85°C ±1.5°C over -40°C to 125°C	I2C/SMBus	Automotive AEC-Q100	DFN3x3-8 MSOP-8
CT7112C-Q	Local	±0.5°C over 0°C to 85°C ±1°C over -40°C to 125°C	I2C/SMBus	Automotive AEC-Q100	SOT-563
CT7112F-Q	Local	±0.5°C over 0°C to 85°C ±1°C over -40°C to 125°C	I2C/SMBus	Automotive AEC-Q100	DFN 1.6x1.6-6
CT7035-Q	Local	±1.5°C over 10°C to 50°C ±3.5°C over -40°C to 125°C	Analog	Automotive AEC-Q100	SOT23 SC70-5
CT7451-Q	1L + 1R	±1°C over 0°C to 85°C ±2°C over -40°C to 125°C	I2C/SMBus	Automotive AEC-Q100	DFN2x2-81





www.sensylink.com