

2-Channel 16/24-bit Sigma-Delta ADC for Bridge Sensors

FEATURES

Programmable Gain: 128
Data Rates: 4.17SPS to 890SPS
RMS Noise:
 20nV at 4.17SPS (Gain=128)
 63nV at 16.7SPS (Gain=128)
Offset Drift: 5nV/°C (Gain=128)
Gain Drift: 1ppm/°C
Integral Non-Linearity: 2ppm
2 Differential Inputs
Internal or External Clock
Simultaneous 50Hz/60Hz Rejection
Burnout Current Sources
Power Supply
 AVDD: 2.7V to 5.25V
 DVDD: 2.7V to 5.25V
Current: 470µA
Package: 16-lead TSSOP

APPLICATIONS

Weigh Scales
Strain Gauges
Industrial Process Control
Pressure Sensors

DESCRIPTION

The SIG7796/7797 are low noise, low drift, and high-resolution 16/24-bit analog-to-digital converter (ADC) with integrated programmable gain amplifier (PGA) that offers high-accuracy measurement solutions for bridge sensors.

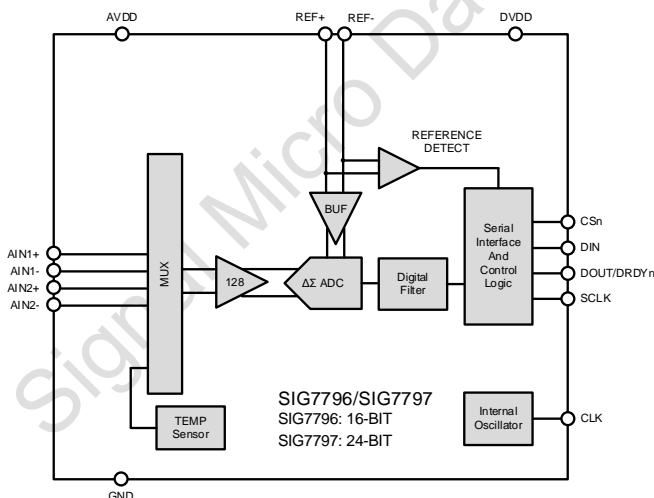
The device contains a low noise amplifier with fixed gain 128, a delta-sigma (Δ - Σ) modulator, and digital filter. The output data rate from the device can be configured from 4.17SPS up to 890SPS. 50Hz/60Hz simultaneous rejection option is also provided. Burnout current sources are provided at the analog inputs for sensor connection diagnosis.

Offset and gain calibration registers are provided with calibration command or direct register write to calibrate the ADC errors or overall system errors. SPI-compatible interface is used for device configuration.

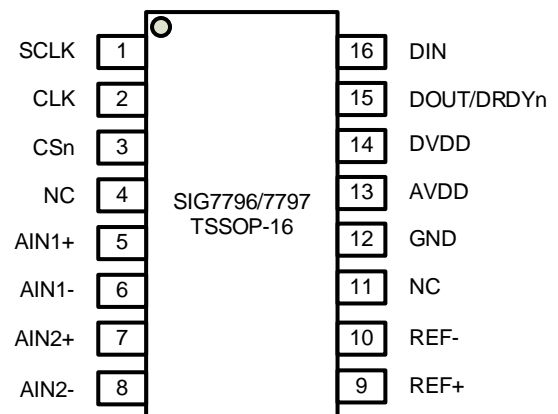
The on-chip oscillator or an external clock can be used as the clock source to the device.

The SIG7796/7797 are available in 16-lead TSSOP packages and are fully specified over the -40°C to +125°C temperature range.

Function Block Diagram

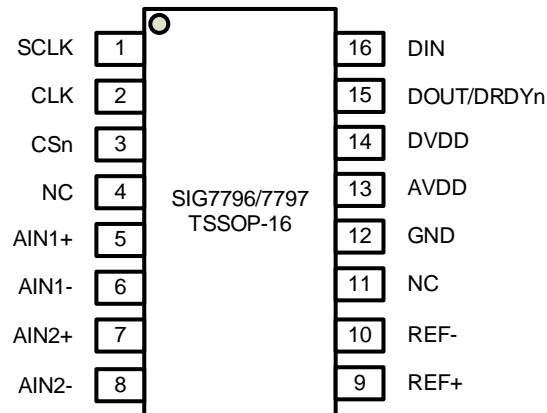


TSSOP-16



PIN CONFIGURATION and DESCRIPTIONS

TOP VIEW (Not To Scale)



PIN		FUNCTION	DESCRIPTION
NO.	NAME		
1	SCLK	Digital Input	Serial data clock.
2	CLK	Digital Input/Output	Master clock input or internal clock output depending on MODE Register bits CLK[1:0].
3	CSn	Digital Input	Serial chip select. Active low.
4	NC	Analog Input	No connect.
5	AIN1+	Analog Input	Analog positive input channel 1.
6	AIN1-	Analog Input	Analog negative input channel 1.
7	AIN2+	Analog Input	Analog positive input channel 2.
8	AIN2-	Analog Input	Analog negative input channel 2.
9	REF+	Analog Input	Positive reference input.
10	REF-	Analog Input	Negative reference input.
11	NC	Analog Input	No connect.
12	GND	Analog	Ground reference point.
13	AVDD	Analog	Positive analog power supply. 2.7V to 5.25V relative to GND. AVDD is independent of DVDD.
14	DVDD	Digital	Digital power supply, 2.7V to 5.25V. DVDD is independent of AVDD.
15	DOUT/DRDYn	Digital Output	Serial data output and data ready indicator.
16	DIN	Digital Input	Serial data input.

PACKAGE/ORDERING INFORMATION

MODEL	PACKAGE DESCRIPTION	SPECIFIED TEMPERATURE RANGE	ORDERING NUMBER	PACKING OPTION
SIG7796	TSSOP-16	-40°C to +125°C	SIG7796-ITSP16-RL	Reel, 5000
SIG7797	TSSOP-16	-40°C to +125°C	SIG7797-ITSP16-RL	Reel, 5000

SPECIFICATIONS

Absolute Maximum Ratings

Over operating free-air temperature range, unless otherwise noted.⁽¹⁾

		MIN	MAX	UNIT
Voltage	AVDD to GND	-0.3	6.5	V
	DVDD to GND	-0.3	6.5	V
	Analog input	-0.3	V _{AVDD} + 0.3	V
	Digital input	-0.3	V _{DVDD} + 0.3	V
Current	Input current	-10	10	mA
Temperature	Junction (T _J)	-50	150	°C
	Storage (T _{stg})	-60	150	°C

(1) Stresses beyond those listed under *Absolute Maximum Ratings* may cause permanent damage to the device. These are a stress rating only; functional operation of the device at these or any other conditions above those indicated in the operational section of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ESD Ratings

SYMBOL	PARAMTER	CONDITION	VALUE	UNIT
HBM	Human-body Model	ANSI/ESDA/JEDEC JS-001	±6000	V
CDM	Charged-device model	JEDEC EIA/JS-002-2022	±2000	V



This integrated circuit can be damaged by ESD. Signal Micro recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage. ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

Electrical Characteristics

Minimum/Maximum specifications apply from -40°C to +125°C. Typical specifications are at +25°C. All specifications are at $V_{AVDD}=5V$, $V_{DVDD}=3.3V$, $V_{GND}=0V$, $V_{REF}=2.5V$, $f_{CLK}=1.024MHz$, $data\ rate=16.7SPS$, and $PGA\ Gain=1$, unless otherwise noted.

PARAMETER	TEST CONDITION OR NOTES	MIN ⁽¹⁾	TYP	MAX ⁽¹⁾	UNITS
ANALOG INPUTS					
Differential Input Voltage	$V_{IN} = V_{INP} - V_{INN}$	$-V_{REF}/Gain$		$+V_{REF}/Gain$	V
Absolute Input Voltage		+ 0.2		$V_{AVDD} - 0.2$	V
Common Mode Input Range		$0.2 + V_{INMAX} \cdot Gain/2$		$V_{AVDD} - 0.2 - V_{INMAX} \cdot Gain/2$	V
Absolute Input Current			±1		nA
SYSTEM PERFORMANCE					
PGA Gain			128		V/V
Resolution	SIG7797		24		Bits
	SIG7796		16		Bits
Data Rate		4.17		890	SPS
Noise		See Noise Table			
Integral Nonlinearity (INL)	Buffer On		±2		ppm
Offset Error	Chop Off		±400/Gain		µV
	Chop On		±1		µV
Offset Drift vs. Temperature			±400/Gain ± 2		nV/°C
Gain Error ⁽²⁾		-500	±100	500	ppm
Gain Drift vs. Temperature		-3	±1	+3	ppm/°C
Normal Mode Rejection (NMRR)	$f_{IN} = 50/60Hz$, ±2%, data rate=16.7SPS		See Table 14		dB
Common Mode Rejection (CMRR)	$f_{IN} = 50Hz$, data rate = 470SPS	100	120		dB
Power Supply Rejection (PSRR)	AVDD	85	105		dB
	DVDD	90	110		dB
EXTERNAL REFERENCE INPUTS					
Differential Reference Voltage (V_{REF})	$V_{REF} = V_{REFP} - V_{REFN}$	0.5	2.5	$V_{AVDD} + 0.1$	V
Absolute Negative Reference Voltage (V_{REFN})		- 0.05		$V_{REFP} - 0.5$	V
Absolute Positive Reference Voltage (V_{REFP})		$V_{REFN} + 0.5$		$V_{AVDD} + 0.05$	V
Average Voltage Input Current			±1		µA
Burnout Current Sources					
Current Setting			0.5		µA
ADC CLOCK					
External Clock	Frequency Range	0.5	1.024	1.1	MHz
	Duty Cycle	40%		60%	
Internal Oscillator	Nominal Frequency		1.024		MHz
	Accuracy	-3%	±0.5%	3%	
DIGITAL INPUT/OUTPUT					
High-level Output Voltage (V_{OH})	$I_{OH} = 4mA$	$0.8 \cdot V_{DVDD}$			V
Low-level Output Voltage (V_{OL})	$I_{OL} = -4mA$			$0.2 \cdot V_{DVDD}$	V
High-level Input Voltage (V_{IH})		$0.7 \cdot V_{DVDD}$		V_{DVDD}	V
Low-level Input Voltage (V_{IL})		0		$0.3 \cdot V_{DVDD}$	V
Input Hysteresis			0.5		V
Input Leakage				±10	µA
POWER SUPPLY					
AVDD Voltage (V_{AVDD})		2.7		5.25	V
DVDD Voltage (V_{DVDD})		2.7		5.25	V

AVDD Current (I_{AVDD})	Normal Mode		350	450	μA
	Sleep Mode		1		μA
DVDD Current (I_{DVDD})	Active Mode		120	200	μA
	Sleep Mode		20		μA
Total Power Dissipation	Normal Mode		2.15		mW
	Sleep Mode		0.10		mW
TEMPERATURE RANGE					
Specified temperature range		-40		125	$^{\circ}C$
Operating temperature range		-50		125	$^{\circ}C$
Storage temperature range		-60		150	$^{\circ}C$

(1) Compliance to datasheet limits is assured by one or more methods: production test, characterization and/or design.

(2) MIN and MAX values listed for gain error are for +25 $^{\circ}C$ room temperature only.

Timing Requirements: Serial Interface

Over the operating ambient temperature range and DVDD = 2.7V to 5.25V, unless otherwise noted.

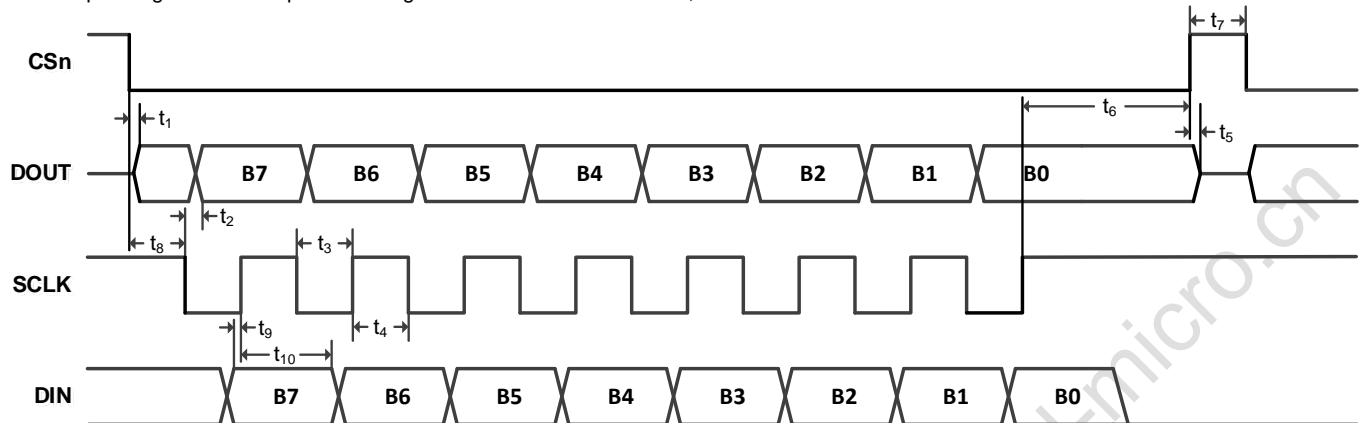


Figure 1. Serial Interface Timing Requirements

SYMBOL	DESCRIPTION	MIN	MAX	UNIT
t_1	CSn falling edge to DOUT/DRDYn driven: propagation delay ⁽¹⁾		50	ns
t_2	SCLK falling edge to valid DOUT/DRDYn: propagation delay ⁽¹⁾		50	ns
t_3	SCLK low pulse width	100		ns
t_4	SCLK high pulse width	100		ns
	SCLK period	200	10^6	ns
t_5	CSn rising edge to DOUT high impedance: propagation delay		40	ns
t_6	Last SCLK rising edge to CSn rising edge: delay time	50		ns
t_7	CSn high pulse width	50		ns
t_8	CSn falling edge to first SCLK falling edge: setup time ⁽²⁾	50		ns
t_9	Valid DIN to SCLK rising edge: setup time	50		ns
t_{10}	Valid DIN to SCLK rising edge: hold time	25		ns

(1) DOUT load = 20pF || 100k Ω to GND.

(2) CSn can be tied low.

NOISE PERFORMANCE

The noise performance of the ADC is affected by PGA gain, data rate, and digital filter setting. The following tables show the rms noise and peak-to-peak noise for different data rate with chop enabled. The effective number of bits (ENOB) and noise-free bits are also listed according to Equation (1) and Equation (2):

$$\text{ENOB} = \log_2(2 \times V_{\text{REF}} / \text{Gain} / V_{\text{RMS}}) \quad (1)$$

$$\text{Noise Free Bits} = \log_2(2 \times V_{\text{REF}} / \text{Gain} / V_{\text{p-p}}) \quad (2)$$

The noise data listed in the table are typical and are generated from continuous ADC readings with differential input voltage of 0 V. With chop disabled, the noise increases by 30%.

Table 1. ADC Noise in μVRMS (μVPP) at $T_A = 25^\circ\text{C}$, $V_{\text{AVDD}} = 5\text{ V}$, $V_{\text{REF}} = 2.5\text{ V}$, Chop Enabled

FS[3:0]	Data Rate (SPS)	PGA GAIN
		128
1111	4.17	0.020(0.095)
1110	6.25	0.026(0.122)
1101	8.33	0.032(0.150)
1100	10	0.036(0.173)
1011	12.5	0.045(0.212)
1010	16.7	0.063(0.300)
1001	16.7	0.063(0.291)
1000	19.6	0.072(0.321)
0111	33.2	0.093(0.449)
0110	39	0.096(0.403)
0101	50	0.120(0.538)
0100	62	0.168(0.687)
0011	123	0.195(1.18)
0010	242	0.287(1.59)
0001	470	0.421(2.55)
0000	890	1.86(12.8)

Table 2. ADC ENOB (Noise Free Bits) at $T_A = 25^\circ\text{C}$, $V_{\text{AVDD}} = 5\text{ V}$, $V_{\text{REF}} = 2.5\text{ V}$, Chop Enabled

FS[3:0]	Data Rate (SPS)	PGA GAIN
		128
1111	4.17	20.9(18.7)
1110	6.25	20.5(18.3)
1101	8.33	20.2(18.0)
1100	10	20.0(17.8)
1011	12.5	19.7(17.5)
1010	16.7	19.2(17.0)
1001	16.7	19.2(17.0)
1000	19.6	19.0(16.9)
0111	33.2	18.7(16.4)
0110	39	18.6(16.6)
0101	50	18.3(16.1)
0100	62	17.8(15.8)
0011	123	17.6(15.0)
0010	242	17.1(14.6)
0001	470	16.5(13.9)
0000	890	14.4(11.6)

ON-CHIP REGISTER MAPS

There are total eight registers inside the device which is 8-bit, 16-bit, or 24-bit wide. These registers are used to configure and control the ADC to the desired mode of operation. These registers can be accessed through the SPI-compatible serial interface by using register read and write commands. At power-on or reset, the registers default to their initial settings, as shown in the *Reset Value* column of [Table 3](#).

Table 3. SIG7797/SIG7796 register map

ADDR.	NAME	DIR.	RESET VALUE	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
3'b000	STATUS	R	80	DRDYn	ERR	NOREF	0	24-bit	CHD[2:0]		
3'b001	MODE	R/W	000A	MD[2:0]			0	0	0	0	0
3'b010	CONFIG	R/W	0710	CLK[1:0]		0	CHOPn	FS[3:0]			
				0	0	BURN	FORMAT	0	1	1	1
3'b011	DATA	R	000000 /(0000) ⁽¹⁾	DATA[23:16] (SIG7797 only)							
				DATA[15:8]							
3'b100	ID	R	XA/(XB) ⁽¹⁾	DATA[7:0]							
				x	x	x	x	1	0	1	1/0
3'b110	OFFSET	R/W	800000 /(8000) ⁽¹⁾	OFFSET[23:16] (SIG7797 only)							
				OFFSET[15:8]							
				OFFSET[7:0]							
3'b111	GAIN	R/W	555555 /(5555) ⁽¹⁾	GAIN[23:16] (SIG7797 only)							
				GAIN[15:8]							
				GAIN[7:0]							

(1) The values in bracket are the default reset value for SIG7796.

STATUS Register

Table 4. STATUS Register (Address = 3'b000)

BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
DRDYn	ERR	NOREF	0	24-bit	CHD[2:0]		

Power-On/Reset Value = 0x80(SIG7796)/ 0x88(SIG7797)

Bits	Bit Name	Access	Reset	Description
7	DRDYn	R	1'b1	ADC Ready Bit: This bit is cleared when new data is written to the ADC data register. It is set automatically after the ADC data register is read. In addition to this bit, DOUT/DRDYn pin can also be used as an alternative to monitor the update of new ADC data.
6	ERR	R	1'b0	ADC Error Bit. This bit is written at the same time as new data update. Error sources include input overrange, input underrange, or lower than expected reference voltage.
5	NOREF	R	1'b0	No External Reference Bit: The function of this bit is only enabled by setting the REFDET bit in the CONFIG Register to 1. While the REFDET bit is 1 and the selected reference voltage is below a specified threshold, which is about 0.4V, this bit is set and conversion results are clamped to all 1s.
4	RESERVED	R	1'b0	Reserved
3	24-bit	R	1'b0(7796) 1'b1(7797)	24-Bit Device Indicator. This bit indicates whether this device is 16-bit (SIG7796) or 24-bit (SIG7797).
2:0	CHD[2:0]	R	3'b000	Data Channel Number: These bits indicate the corresponding channel to the ADC data in data register (see Table 7).

MODE Register
Table 5. MODE Register (Address = 3'b001)

BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT 10	BIT 9	BIT 8
BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
MD[2:0]			0	0	0	0	0
CLK[1:0]		0	CHOPn	FS[3:0]			

Power-On/Reset Value = 0x000A

Bits	Bit Name	Access	Reset	Description
15:13	MD[2:0]	R/W	3'b000	Mode Select Bits: These bits select the operating mode of the device. 000: Continuous conversion mode. (default) 001: Single conversion mode. ADC first wakeup if in idle or sleep mode; resets the filter to perform one conversion; and enters sleep mode. The conversion result remains in the data register with DOUT/DRDYn as low. 010: Idle mode. The digital filter is in reset state with ADC free running. 011: Sleep mode. Most of circuitry is turned off to save the power. 100: Internal zero-scale calibration. 101: Internal full-scale calibration. 110: System zero-scale calibration. 111: System full-scale calibration. For each above calibration mode, DOUT/DRDYn goes high when the calibration is initiated and returns low when the calibration is complete. The ADC is automatically placed in idle mode after the calibration. The measured offset/full-scale coefficient is placed in the offset/full-scale register of the selected channel.
12:8	RESERVED	R/W	5'b00000	Reserved Always write 5'b00000
7:6	CLK[1:0]	R/W	2'b10	Clock Select Bits: These bits select the clock source for SYSCLK. 00: Internal 1.024MHz clock with CLK tristated. (default) 01: Internal 1.024MHz clock with its output on CLK pin. 10: External clock applied to the CLK pin. 11: External clock applied to the CLK pin.
5	RESERVED	R/W	1'b0	Reserved Always write 1'b0
4	CHOPn	R/W	1'b0	Chop Disable Bit: When chop is enabled with bit clear to logic 0, the offset and offset drift of the ADC are dramatically improved with settling time doubled. All output data are fully settled data. For default data rate settling of 16.7SPS, the conversion time is 60ms for all output data with chop disabled. If chop is enabled, the conversion time is 120ms for the first data and 60ms thereafter.
3:0	FS[3:0]	R/W	4'b1010	Data Rate Configuration: Selects the ADC data rate. 0000: 890SPS 0001: 470SPS 0010: 242SPS 0011: 123SPS 0100: 62SPS 0101: 50SPS 0110: 39SPS 0111: 33.2SPS 1000: 19.6SPS 1001: 16.7SPS 1010: 16.7SPS (default) 1011: 12.5SPS 1100: 10SPS

1101: 8.33SPS
1110: 6.25SPS
1111: 4.17SPS

CONFIG Register

Table 6. CONFIG Register (Address = 3'b010)

BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT 10	BIT 9	BIT 8
BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
0	0	BURN	FORMAT	0	1	1	1
0	0	REFDET	1	0	CH[2:0]		

Power-On/Reset Value = 0x0710

Bits	Bit Name	Access	Reset	Description
15:14	RESERVED	R/W	2'b00	Reserved Always write 2'b00
13	BURN	R/W	1'b0	Burnout Enable Bit: When this bit is enabled, a pair of 0.5µA current sources are applied to analog inputs to source positive input and sink negative input.
12	FORMAT	R/W	1'b0	Data Format Bit: This bit sets the ADC data format. 0: Bipolar mode (default) 1: Unipolar mode
11	RESERVED	R/W	1'b0	Reserved Always write 1'b0
10:8	RESERVED	R/W	3'b111	Reserved Always write 3'b111
7:6	RESERVED	R/W	2'b00	Reserved Always write 2'b00
5	REFDET	R/W	1'b0	Reference Detection Enable Bit: When this bit is enabled, the NOREF bit in the STATUS register indicates when the reference input voltage is less than specified threshold, which is about 0.4V.
4	RESERVED	R/W	1'b1	Reserved Always write 1'b1
3	RESERVED	R/W	1'b0	Reserved Always write 1'b0
2:0	CH[2:0]	R/W	3'b000	Channel Select Bits: These bits select which channel is enabled for ADC conversion (see Table 7). When ADC finishes the conversion and places the data into data register with the corresponding channel information in STATUS register.

Table 7. Channel Selection

CHD[2:0]	Positive Input AIN+	Negative Input AIN-	Status Register Bits CHD[2:0]	Calibration Register Pair
000	AIN1+	AIN1-	000	0
001	AIN2+	AIN2-	001	1
010	Reserved		010	
011	AIN1-	AIN1-	011	0
100	Reserved		100	
101	Reserved		101	
110	Temperature Sensor ⁽¹⁾		110	Default Reset Values
111	AVDD Monitor ⁽²⁾		111	Default Reset Values

(1) For temperature sensor measurement, PGA gain is internally forced to 1 with buffer on and internal 1.17V reference is used disregarding user register configuration.

(2) For AVDD monitor measurement, the AVDD is internally attenuated by 6, PGA gain is forced to 1 with buffer on and internal 1.17V reference is used disregarding user register configuration.

DATA Register

This register is 16 bits wide for SIG7796 and 24 bits wide for SIG7797.

Table 8. DATA Register (Address = 3'b011)

BIT 23	BIT 22	BIT 21	BIT 20	BIT 19	BIT18	BIT 17	BIT 16
BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT10	BIT 9	BIT 8
BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
DATA[23]	DATA[22]	DATA[21]	DATA[20]	DATA[19]	DATA[18]	DATA[17]	DATA[16]
DATA[15]	DATA[14]	DATA[13]	DATA[12]	DATA[11]	DATA[10]	DATA[9]	DATA[8]
DATA[7]	DATA[6]	DATA[5]	DATA[4]	DATA[3]	DATA[2]	DATA[1]	DATA[0]

Power-On/Reset Value = 0x0000(SIG7796)/0x000000(SIG7797)

Bits	Bit Name	Access	Reset	Description
23:0	DATA[23:0]	R	0x000000	Data Bits: The 16-bit word for SIG7796 or 24-bit word for SIG7797 is signed number in 2's complement format. See Data Format section for more information.

ID Register

Table 9. ID Register (Address = 3'b100)

BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
x	x	x	x	1	0	1	0/1

Power-On/Reset Value = 0xXA(SIG7796)/0xB(SIG7797)

Bits	Bit Name	Access	Reset	Description
7:0	ID	R	8'bxxxx101x	ID Bits: Read only.

OFFSET Register

The device has four OFFSET registers, each channel has a dedicated OFFSET register (see [Table 7](#)). This register is 16 bits wide for SIG7796 and 24 bits wide for SIG7797. OFFSET register read is allowed anytime, but writing to OFFSET register is only allowed while the device is in idle or sleep mode.

Table 10. OFFSET Register (Address = 3'b110)

BIT 23	BIT 22	BIT 21	BIT 20	BIT 19	BIT18	BIT 17	BIT 16
BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT10	BIT 9	BIT 8
BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
OFFSET[23]	OFFSET[22]	OFFSET[21]	OFFSET[20]	OFFSET[19]	OFFSET[18]	OFFSET[17]	OFFSET[16]
OFFSET[15]	OFFSET[14]	OFFSET[13]	OFFSET[12]	OFFSET[11]	OFFSET[10]	OFFSET[9]	OFFSET[8]
OFFSET[7]	OFFSET[6]	OFFSET[5]	OFFSET[4]	OFFSET[3]	OFFSET[2]	OFFSET[1]	OFFSET[0]

Power-On/Reset Value = 0x8000(SIG7796)/0x800000(SIG7797)

Bits	Bit Name	Access	Reset	Description
23:0	OFFSET[23:0]	R/W	0x800000	Offset Calibration Bits: The 24-bit word is signed number in offset binary format. See Calibration section for more information.

GAIN Register

The device has four GAIN registers, each channel has a dedicated GAIN register (see [Table 7](#)). This register is 16 bits wide for SIG7796 and 24 bits wide for SIG7797. GAIN register read is allowed anytime, but writing to GAIN register is only allowed while the device is in idle or sleep mode.

Table 11. GAIN Register (Address = 3'b111)

BIT 23	BIT 22	BIT 21	BIT 20	BIT 19	BIT 18	BIT 17	BIT 16
BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT 10	BIT 9	BIT 8
BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
GAIN[23]	GAIN[22]	GAIN[21]	GAIN[20]	GAIN[19]	GAIN[18]	GAIN[17]	GAIN[16]
GAIN[15]	GAIN[14]	GAIN[13]	GAIN[12]	GAIN[11]	GAIN[10]	GAIN[9]	GAIN[8]
GAIN[7]	GAIN[6]	GAIN[5]	GAIN[4]	GAIN[3]	GAIN[2]	GAIN[1]	GAIN[0]

Power-On/Reset Value = 0x5555(SIG7796)/0x555555(SIG7797)

Bits	Bit Name	Access	Reset	Description
23:0	GAIN[23:0]	R/W	0x555555	Gain Calibration Bits: The 24-bit word is unsigned positive number in binary format. See Calibration section for more information.

REVISION HISTORY

The revision history provided is for informational purposes only and is believed to be accurate, but not warranted. Please contact to make sure you have the latest revision.

DATE	REVISION	CHANGE
May 20, 2022		Initial release.

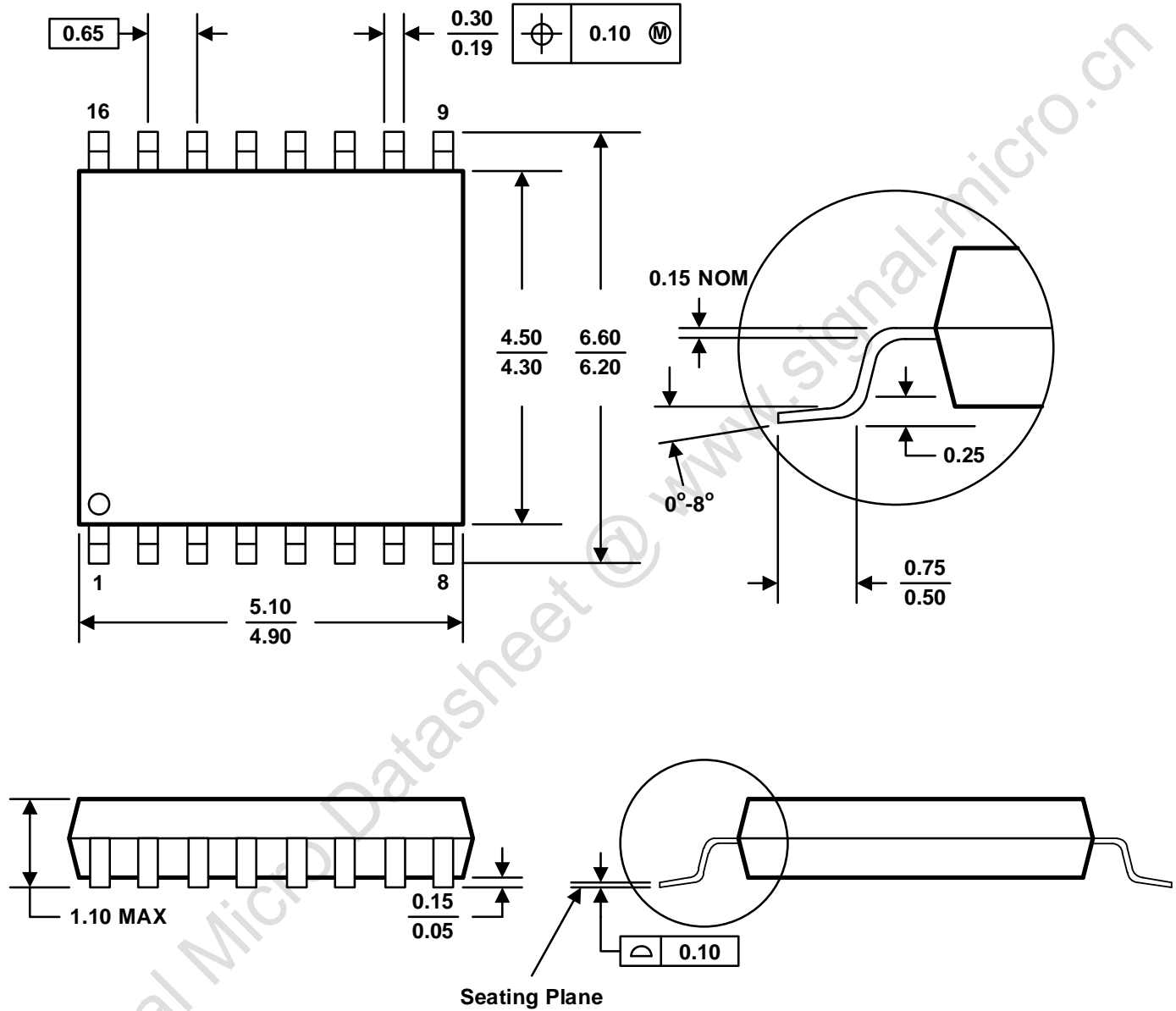
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PACKAGE OUTLINE DIMENSIONS



- A. Compliant to JEDEC STANDARDS MO-153-AD.
- B. All linear dimensions are in millimeters.
- C. This drawing is subject to change without notice.