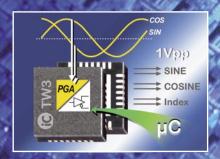
iC-TW3

SIN/COS SIGNAL CONDITIONER WITH 1 Vpp DRIVER AND INTEGRATED TEMPERATURE COMPENSATION





The general purpose sensor signal conditioner iC-TW3 provides highly accurate non contact trimming of three independent sine/cosine sensor signals. The differential output signals can be calibrated to 1 Vpp or to 2 Vpp, alternatively.

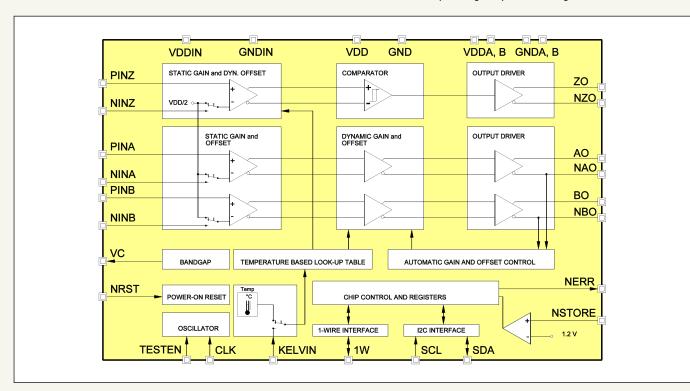
The internal or an external temperature sensor linked to the chip can influence the gain and offset correction by arbitrary temperature-dependent compensation parameters sourced from a lookup table.

Applications

- Programmable general purpose sensor interface
- Optical position sensors
- Magnetic position sensors
- Incremental position sensors
- Linear scales

Features

- Fully differential 3-channel signal conditioning
- Differential/single-ended PGA inputs
- Overall gain of -3 to 57 dB, adjustable in steps of 0.08 dB
- Output referred offset range of ± 1.2 V, adj. in steps of 2 mV
- Signal bandwidth to 1 MHz and in/out latency below 1 μs
- Selectable automatic gain and offset control for encoder applications
- On-chip or off-chip temperature sensing
- Temperature drift compensation for gain and offset via programmable look-up-tables
- Short-circuit-proof 1 Vpp / 2 Vpp output drivers to 100 Ohm
- I2C interface to restore device setup from serial EEPROM
- Bidirectional 1-wire interface for direct RAM and EEPROM access
- Optical setup link via 1-wire interface operating a photo receiver
- Single 3.0 V to 5.5 V supply
- Extended operating temperature range of -50 to +150 °C







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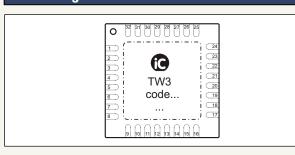
For encoder applications an automatic gain and offset control compensates sensor offset voltages and stabilizes the output signal level.

The direct connection of sine/cosine encoders, MR sensor bridges or photosensor arrays is possible and supported by a selectable input impedance.

Pin Functions

1 PINZ Pos. Input Signal Z 2 NINZ Neg. Input Signal Z 3 TESTEN Test Mode Enable Input 4 CLK External Clock Input 5 NZO Inverted Signal Output Z 6 ZO Signal Output Z 7 GNDB Analog Ground For Output Drivers 8 VDDB +3.3 to 5.5 V Analog Output Power Supply 9 NBO Inverted Signal Output B 10 BO Signal Output B 11 GND Digital Ground 12 SCL Serial 2-Wire Interface, clock line 13 SDA Serial 2-Wire Interface, bidirectional data line 14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B 31 NINB Neg. Input Signal B	No.	Name	Function
TESTEN Test Mode Enable Input CLK External Clock Input NZO Inverted Signal Output Z Signal Output Z GNDB Analog Ground For Output Drivers NBO Inverted Signal Output B Inverted Signal Output B Inverted Signal Output B Signal Output B Signal Output B Signal Output B Serial 2-Wire Interface, clock line SDA Serial 2-Wire Interface, bidirectional data line Analog Ground For Output Drivers SONDA Analog Ground For Output Drivers Signal Output A NAO Signal Output A NAO Inverted Signal Output A NERR Alarm Message Output (active low) NERR Alarm Message Output (active low) NSTORE Coefficient Store Input (active low) Anc. NSTORE Coefficient Store Input (active low) KELVIN External Temperature Sensor Input Nalog Ground For Input Drivers NANO Pos. Input Signal B NINB Neg. Input Signal B	1	PINZ	Pos. Input Signal Z
4 CLK External Clock Input 5 NZO Inverted Signal Output Z 6 ZO Signal Output Z 7 GNDB Analog Ground For Output Drivers 8 VDDB +3.3 to 5.5 V Analog Output Power Supply 9 NBO Inverted Signal Output B 10 BO Signal Output B 11 GND Digital Ground 12 SCL Serial 2-Wire Interface, clock line 13 SDA Serial 2-Wire Interface, bidirectional data line 14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	2	NINZ	Neg. Input Signal Z
5 NZO Inverted Signal Output Z 6 ZO Signal Output Z 7 GNDB Analog Ground For Output Drivers 8 VDDB +3.3 to 5.5 V Analog Output Power Supply 9 NBO Inverted Signal Output B 10 BO Signal Output B 11 GND Digital Ground 12 SCL Serial 2-Wire Interface, clock line 13 SDA Serial 2-Wire Interface, bidirectional data line 14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c. 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c. 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	3	TESTEN	Test Mode Enable Input
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8 VDDB +3.3 to 5.5 V Analog Output Power Supply 9 NBO Inverted Signal Output B 10 BO Signal Output B 11 GND Digital Ground 12 SCL Serial 2-Wire Interface, clock line 13 SDA Serial 2-Wire Interface, bidirectional data line 14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	6	Z0	Signal Output Z
9 NBO Inverted Signal Output B 10 BO Signal Output B 11 GND Digital Ground 12 SCL Serial 2-Wire Interface, clock line 13 SDA Serial 2-Wire Interface, bidirectional data line 14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	7	GNDB	Analog Ground For Output Drivers
10 BO Signal Output B 11 GND Digital Ground 12 SCL Serial 2-Wire Interface, clock line 13 SDA Serial 2-Wire Interface, bidirectional data line 14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	8	VDDB	+3.3 to 5.5 V Analog Output Power Supply
11 GND Digital Ground 12 SCL Serial 2-Wire Interface, clock line 13 SDA Serial 2-Wire Interface, bidirectional data line 14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	9	NB0	Inverted Signal Output B
12 SCL Serial 2-Wire Interface, clock line 13 SDA Serial 2-Wire Interface, bidirectional data line 14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	10	В0	Signal Output B
13 SDA Serial 2-Wire Interface, bidirectional data line 14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	11	GND	Digital Ground
14 VDD +3.3 to 5.5 V Digital Power Supply 15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	12	SCL	Serial 2-Wire Interface, clock line
15 GNDA Analog Ground For Output Drivers 16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	13	SDA	Serial 2-Wire Interface, bidirectional data line
16 n.c 17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	14	VDD	+3.3 to 5.5 V Digital Power Supply
17 AO Signal Output A 18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	15	GNDA	Analog Ground For Output Drivers
18 NAO Inverted Signal Output A 19 VDDA +3.3 to 5.5 V Analog Output Power Supply 20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	16	n.c.	-
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20 1W Serial 1-Wire Interface, bidirectional port 21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	18	NA0	Inverted Signal Output A
21 NERR Alarm Message Output (active low) 22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	19	VDDA	+3.3 to 5.5 V Analog Output Power Supply
22 NRST Reset Input (active low) 23 NSTORE Coefficient Store Input (active low) 24 n.c. 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	20	1W	Serial 1-Wire Interface, bidirectional port
23 NSTORE Coefficient Store Input (active low) 24 n.c. 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	21	NERR	Alarm Message Output (active low)
24 n.c 25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	22	NRST	Reset Input (active low)
25 NINA Neg. Input Signal A 26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	23	NSTORE	Coefficient Store Input (active low)
26 PINA Pos. Input Signal A 27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	24	n.c.	-
27 KELVIN External Temperature Sensor Input 28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	25	NINA	Neg. Input Signal A
28 GNDIN Analog Ground For Input Drivers 29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	26	PINA	Pos. Input Signal A
29 VDDIN Analog Power For Input Drivers 30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	27	KELVIN	External Temperature Sensor Input
30 PINB Pos. Input Signal B 31 NINB Neg. Input Signal B	28	GNDIN	Analog Ground For Input Drivers
31 NINB Neg. Input Signal B	29	VDDIN	Analog Power For Input Drivers
	30	PINB	Pos. Input Signal B
32 VC 1.21 V Reference Output	31	NINB	Neg. Input Signal B
	32	VC	1.21 V Reference Output

Pin Configuration QFN32 5 mm x 5 mm



Key Specifications

Inputs And Signal Conditioning Channel A/B		
Coarse Gain Range	1 to 63 in logarithmic steps	
Fine Gain	1 to 7.07 in logarithmic steps	
Coarse Offset	-1.24 V to +1.24 V in steps of 40 mV	
Fine Offset	-0.254 V to +0.254 V in steps of 2 mV	
Low Pass Filter (-3dB)	200 kHz, 500 kHz, 1 MHz	
Output Gain	0.707, 1.0, 1.41, 2.0	

Inputs And Signal Conditioning Channel Z		
Gain	1 to 63 in logarithmic steps	
Offset	-1.86 V to + 1.86 V in steps of 60 mV	
Polarity	selectable	
Op Mode	comparated (1 Vpp), amplified	
Output Gain	0.707, 1.0, 1.41, 2.0	

Automatic Fine Gain and Fine Offset Control		
Output Signal	Controlled to 1 Vpp (to 2 Vpp)	
Control Tracking Limit	2 kHz, 20 kHz, 200 kHz and no limit	

Temperature Sensor And Compensation		
Internal Sensor Range	-50 °C to +150 °C equals to 10 to 245 digits	
External Sensor Range	-50 °C to +150 °C equals to 1.7 V to 0.9 V input voltage	
Hysteresis	+/- 2 increments	
Interpolation	piecewise linear, up to 16 breakpoints affecting gain and offset calibration	

Power Supply Monitor		
Sensing Power Loss	all channels are powered down immediately, dynamic calibration registers are written to EEPROM with new checksum	

Other Operational Data				
Supply Voltage VDD	3.0 V to 5.5 V			
Supply Current IDD (into VDDA+VDD)	15 mA (VDD = 3.3 V) 25 mA (VDD = 5.0 V)			
Operational Temp. Range	-50 °C to +150 °C			
Package	QFN32 (5 mm x 5 mm)			
Device Configuration	via serial 1-wire interface via serial 2-wire interface 16 bytes configuration data + 16 x 6 bytes Look-Up-Table			
Monitoring And Alarm	EEPROM error conditions (checksum error, read error, write error), temperature alarm unconnected input terminal			

Compatible Sensors

Photo diode arrays, AMR / GMR sensors, multi purpose sensors

