

ADS111x Ultra-Small, Low-Power, I²C-Compatible, 860-SPS, 16-Bit ADCs With Internal Reference, Oscillator, and Programmable Comparator

[ADS111x Ultra-Small, Low-Power, I²C-Compatible, 860-SPS, 16-Bit ADCs With Internal Reference, Oscillator, and Programmable Comparator datasheet \(Rev. D\)](#)



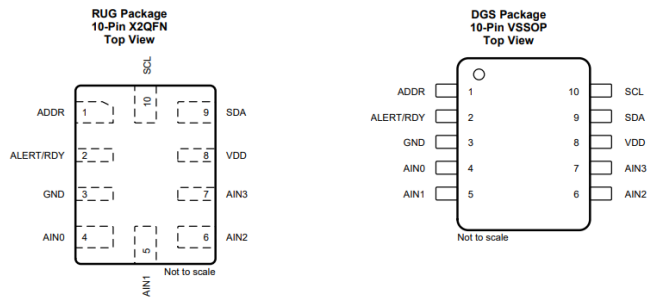
www.ti.com

ADS1113, ADS1114, ADS1115
SBAS444D – MAY 2009 – REVISED JANUARY 2018

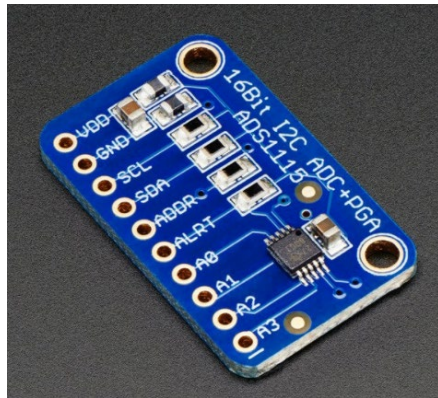
5 Device Comparison Table

DEVICE	RESOLUTION (Bits)	MAXIMUM SAMPLE RATE (SPS)	INPUT CHANNELS Differential (Single-Ended)	PGA	INTERFACE	SPECIAL FEATURES
ADS1115	16	860	2 (4)	Yes	I ² C	Comparator
ADS1114	16	860	1 (1)	Yes	I ² C	Comparator
ADS1113	16	860	1 (1)	No	I ² C	None
ADS1015	12	3300	2 (4)	Yes	I ² C	Comparator
ADS1014	12	3300	1 (1)	Yes	I ² C	Comparator
ADS1013	12	3300	1 (1)	No	I ² C	None
ADS1118	16	860	2 (4)	Yes	SPI	Temperature sensor
ADS1018	12	3300	2 (4)	Yes	SPI	Temperature sensor

6 Pin Configuration and Functions



[ADS1115 16-Bit ADC - 4 Channel with Programmable Gain Amplifier ID: 1085 - \\$14.95 : Adafruit Industries, Unique & fun DIY electronics and kits](#)



ADS1120 4-Channel, 2-kSPS, Low-Power, 16-Bit ADC with Integrated PGA and Reference

[ADS1120 4-Channel, 2-kSPS, Low-Power, 16-Bit ADC with Integrated PGA and Reference datasheet \(Rev. C\) \(ti.com\)](#)

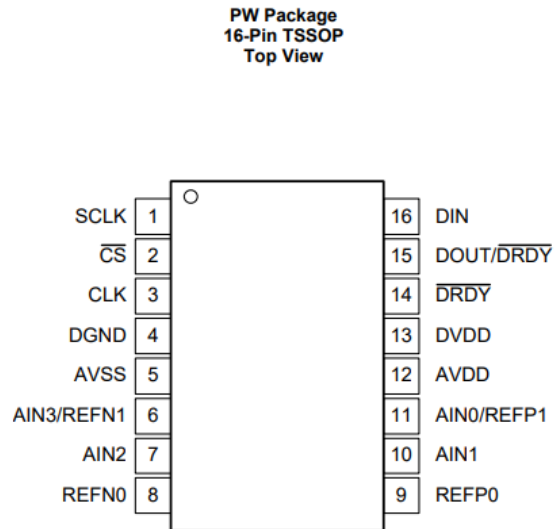
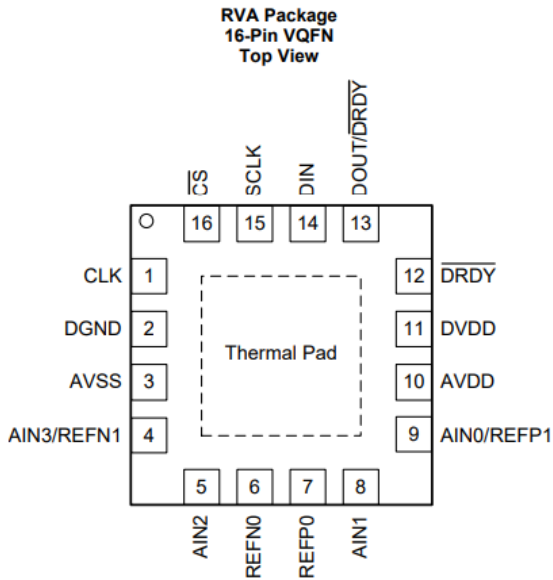


ADS1120

SBAS535C – AUGUST 2013 – REVISED FEBRUARY 2017

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5 Pin Configuration and Functions



ADS112C04 16-Bit, 4-Channel, 2-kSPS, Delta-Sigma ADC With I²C Interface

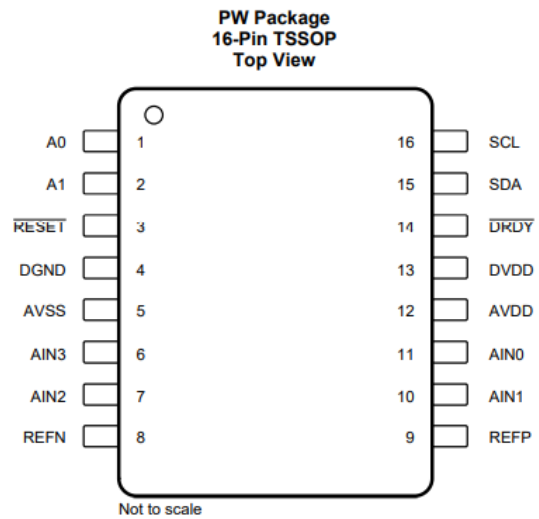
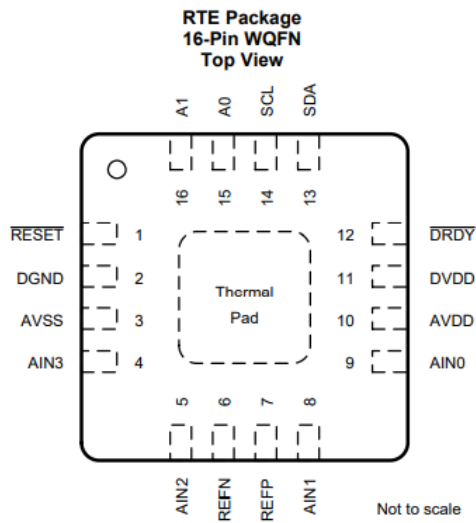
[ADS112C04 16-Bit, 4-Channel, 2-kSPS, Delta-Sigma ADC With I²C Interface datasheet \(Rev. A\) \(ti.com\)](#)



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ADS112C04
SBAS894A – APRIL 2018 – REVISED OCTOBER 2018

5 Pin Configuration and Functions



ADS114x 16-Bit, 2-kSPS, Analog-to-Digital Converters With Programmable Gain Amplifier (PGA) for Sensor Measurement

[ADS114x 16-Bit, 2-kSPS, Analog-to-Digital Converters With Programmable Gain Amplifier \(PGA\) for Sensor Measurement datasheet \(Rev. G\) \(ti.com\)](#)



ADS1146, ADS1147, ADS1148

SBAS453G –JULY 2009–REVISED AUGUST 2016

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5 Device Comparison Table

PRODUCT	RESOLUTION (BITS)	NUMBER OF INPUTS	VOLTAGE REFERENCE	EXCITATION CURRENT SOURCES	PACKAGE (PINS)
ADS1246	24	1 Differential	External	No	TSSOP (16)
ADS1247	24	4-Input Multiplexer	Internal or External	Yes	TSSOP (20)
ADS1248	24	8-Input Multiplexer	Internal or External	Yes	TSSOP (28)
ADS1146	16	1 Differential	External	No	TSSOP (16)
ADS1147	16	4-Input Multiplexer	Internal or External	Yes	TSSOP (20)
ADS1148	16	8-Input Multiplexer	Internal or External	Yes	TSSOP (28)
	16	8-Input Multiplexer	Internal or External	Yes	VQFN (32)



ADS1146, ADS1147, ADS1148

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SBAS453G –JULY 2009–REVISED AUGUST 2016

6 Pin Configuration and Functions

