AS1538

Product Brief

8-Channel, 12-Bit I²C Analog-to-Digital Converter

1 General Description

The AS1538 is a single-supply, low-power, 12-bit data acquisition device that features a serial I²C interface and an 8-channel multiplexer.

The analog-to-digital (A/D) converter features a sample-and-hold amplifier an internal asynchronous clock and an internal reference.

The combination of an I^2C serial, 2-wire interface and micropower consumption makes the AS1538 ideal for applications requiring the A/D converter to be close to the input source in remote locations and for applications requiring isolation.

The device is available in a TSSOP-16 package.

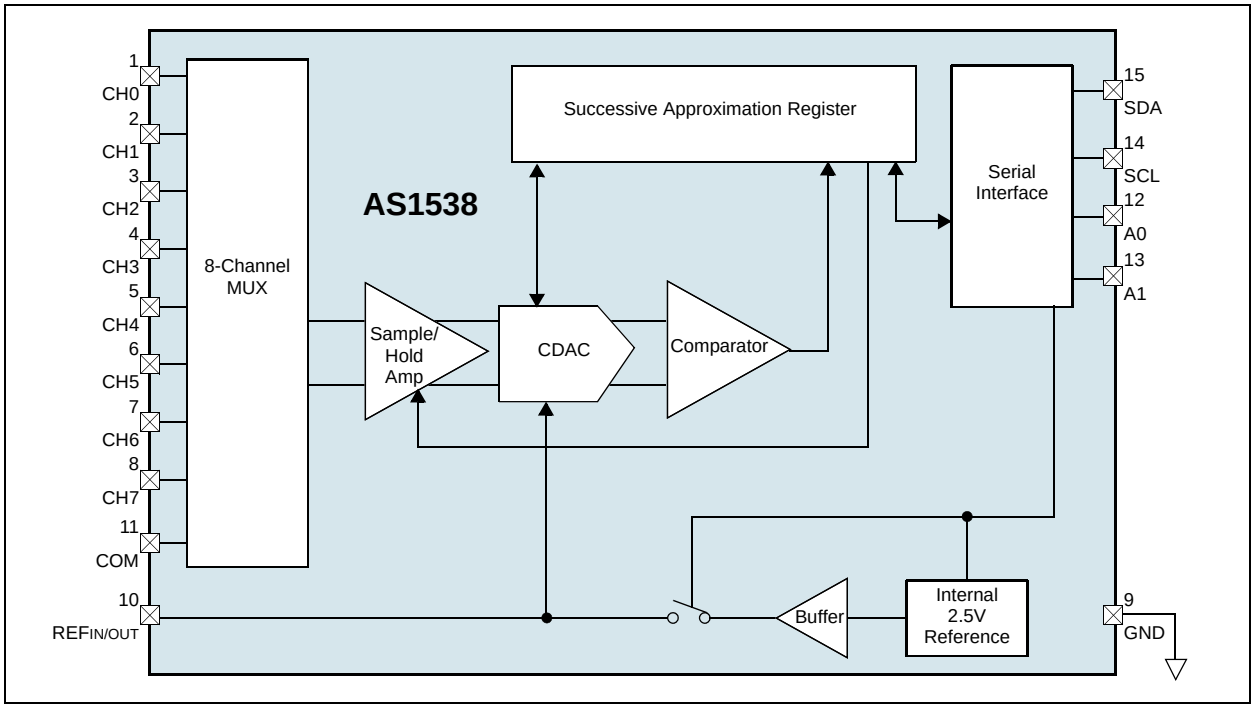
2 Key Features

- Single Supply: 2.7 to 5.25V
- 8-Channel Multiplexer
- Sampling Rate: 50kSPS
- No Missing Codes
- Internal Reference: 2.5V
- High Speed I^2C Interface at 3.4MHz
- <1.5µA Full Shutdown Current
- TSSOP-16 Package

3 Applications

The device is ideal for voltage-supply monitoring, isolated data acquisition, transducer interfaces, battery-operated systems, remote data acquisition or any other analog-to-digital conversion application.

Figure 1. Block Diagram



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