

Ultra-Small, Low-Power, 16-Bit Analog-to-Digital Converter with Internal Reference

Check for Samples: [ADS1113](#) [ADS1114](#) [ADS1115](#)

FEATURES

- **ULTRA-SMALL QFN PACKAGE:**
2mm × 1.5mm × 0.6mm
- **WIDE SUPPLY RANGE:** 2.0V to 5.5V
- **LOW CURRENT CONSUMPTION:**
Continuous Mode: Only 150µA
Single-Shot Mode: Auto Shut-Down
- **PROGRAMMABLE DATA RATE:**
8SPS to 860SPS
- **INTERNAL LOW-DRIFT
VOLTAGE REFERENCE**
- **INTERNAL OSCILLATOR**
- **ON-CHIP**
- **DIFFERENTIAL** (Selectable Addresses)
- **DIFFERENTIAL** (Selectable Addresses)
- **PROGRAMMABLE CLOCK** (ADS1114 and ADS1115)
- **OPERATING TEMPERATURE:** -40°C to +140°C

APPLICATIONS

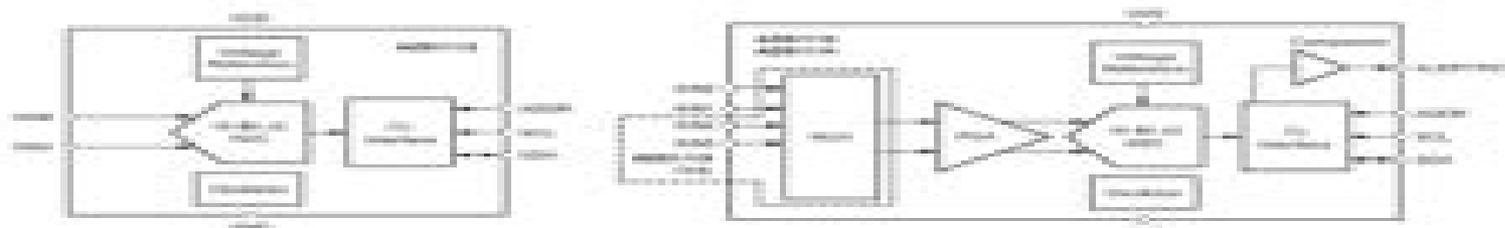
- PORTABLE INSTRUMENTATION
- CONSUMER GOODS
- BATTERY MONITORING
- TEMPERATURE MEASUREMENT
- FACTORY AUTOMATION AND PROCESS CONTROLS

DESCRIPTION

The ADS1113, ADS1114, and ADS1115 are precision analog-to-digital converters (ADCs) with 16 bits of resolution offered in an ultra-small, leadless QFN package or an MSOP-10 package. The ADS1113/4/5 are designed with precision, power, and ease of implementation in mind. The ADS1113/4/5 feature an onboard reference and oscillator. Data are transferred via an I²C-compatible serial interface; four I²C slave addresses can be selected. The ADS1113/4/5 operate from a single power supply ranging from 2.0V to 5.5V.

The ADS1113/4/5 can perform conversions at rates up to 860 samples per second (SPS). An onboard PGA is available on the ADS1114 and ADS1115 that offers input ranges from the supply to as low as ±250mV, allowing both large and small signals to be measured with high resolution. The ADS1115 also features an input multiplexer (MUX) that provides two differential or four single-ended inputs.

The ADS1113/4/5 can operate either in continuous conversion or in a single-shot mode that automatically returns the converter to a low-power state and greatly reduces conversion time between conversions. The ADS1113/4/5 are specified for operation from -40°C to +125°C.



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