



**THE DATASHEET OF  
MAX11160EUB+**



# MAX11160

## 16-Bit, 500ksps ADC with 5ppm/°C Internal Reference

ADC with Internal Reference in Industry-Standard 10-Pin  
Package

### OVERVIEW

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#### Description

The MAX11160 is a 16-bit, 500ksps SAR ADC offered in industry-standard, 10-pin  $\mu$ MAX and 3mm x 3mm TDFN packages. This ADC integrates a 5ppm/°C reference, saving the cost and space of an external reference.

Operating from a single 5V analog supply, the MAX11160 achieves excellent AC specifications of 92.5dB SINAD and -105dB THD over a 0 to 5V input range. This ADC communicates through an SPI-compatible serial interface at 2.5V, 3V, 3.3V, or 5V logic.

#### Key Features

- 16-Bit Resolution with No Missing Codes
- 500ksps Throughput Rate
- Low-Drift Internal Reference (5ppm/°C)
- Industry-Standard 10-Pin  $\mu$ MAX and 3mm x 3mm TDFN Packages
- SINAD: 92.5dB at 20kHz
- THD: -105dB at 20kHz
- Low Power Dissipation
  - 34mW at 500ksps
  - 1 $\mu$ A Shutdown Mode
- No Pipeline Delay/Latency

- Single 5V Analog Supply
- 2.3V to 5V Digital Supply
- SPI/QSPI™/MICROWIRE®/DSP-  
Compatible Serial Interface
- Pseudo-Differential Analog Input  
Range
- 0V to  $V_{REF}$  with  $V_{REF}$  Up to  $V_{DD}$

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