

MAX11162, MAX11163

16-Bit, 500ksps/250ksps Serial ADCs in Tiny 10-Pin Packages

ADCs in Industry-Standard 10-Pin Package Offer 93dB SNR

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Status

Active: In Production.

Data Sheet

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Description

The MAX11162/MAX11163 are 16-bit, 500ksps/250ksps SAR ADCs offered in industry-standard, 10-pin μ MAX[®] and 3mm x 3mm TDFN packages.

Operating from a single 5V analog supply, the MAX11162/MAX11163 achieve excellent AC specifications of 92.5dB SINAD and -105dB THD over a 0 to 5V input range. These ADCs communicate 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 (MAX11162)
- 250ksps Throughput Rate (MAX11163)
- Industry-Standard 10-Pin μ MAX and 3mm x 3mm TDFN Packages
- SINAD: 92.5dB at 20kHz
- THD: -105dB at 20kHz
- Low Power Dissipation
 - 23mW at 500ksps
 - 1 μ A Shutdown Mode
- No Pipeline Delay/Latency
- Single 5V Analog Supply
- 1.8V to 5V Digital Supply
- SPI/QSPI[™]/MICROWIRE[®]/DSP-Compatible Serial Interface
- Pseudo-Differential Analog Input Range
- 0 to V_{REF} with V_{REF} Up to V_{DD}

More Information

- Topmark Coding
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