

A10B3M-XF180



10-bit, 3 MSPS

Analog to Digital Converter IP block

General Description

The A10B3M is an ultra-low-power and medium-speed analog to digital converter (ADC) intellectual property (IP) design block. It is a successive approximation register (SAR) ADC, with 10-bit resolution and a sampling rate of 3 megasamples per second (MSPS).

The A10B3M delivers unrivaled performance in the ultra-low power ADC market, with a power consumption of only 600 uW, and input bandwidth of 3 GHz.

The cost-effective IP block has been designed in a 180nm CMOS process.

The ADC IP is also available in a radiation-tolerant version, that can function under harsh environmental constraints.

Available as IP and Integrated Circuit

Key Features

- ◆ 10 bit resolution
- ◆ 3 MSPS sampling rate
- ◆ 600 uW power
- ◆ 10 MHz Input Bandwidth
- ◆ Dynamic Performance:
 - ◆ SFDR: 70 dBc
 - ◆ ENOB: 8.7
- ◆ Hard IP block
- ◆ X-Fab 180 nm process
- ◆ Radiation-tolerant design available: A10B3MRH

Applications

- ◆ Low-power Data Acquisition
- ◆ Wearable Medical Devices
- ◆ Ultrasound and Medical Imaging
- ◆ Battery-powered, Portable or Handheld Systems
- ◆ Internet-of-Things

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