

# A10B50M-XF180



**10-bit, 50 MSPS**

## Analog to Digital Converter IP block

### General Description

The A10B50M is an ultra low-power, pipeline analog to digital converter (ADC) intellectual property (IP) design block. It has 10-bit resolution and a sampling rate of up to 50 megasamples per second (MSPS).

The A10B50M maintains its high performance while consuming an exceptionally low power of only 8 mW, making it an outstanding solution for high efficiency designs and applications.

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

Available as IP and Integrated Circuit.

### Key Features

- ◆ 10 bit resolution
- ◆ 50 MSPS sampling rate
- ◆ 8 mW power
- ◆ 50 MHz Input Bandwidth
- ◆ Dynamic Performance:
  - ◆ SFDR: 67 dBc
  - ◆ ENOB: 9.1
- ◆ Hard IP block
- ◆ X-Fab 180 nm process
- ◆ Silicon-validated
- ◆ Radiation-tolerant design available: A10B50MRH

### Applications

- ◆ Battery Powered Instruments
- ◆ Sensor/Detector Readout
- ◆ Imaging Applications
  - ◆ Image Sensor Readout
  - ◆ Infrared FPA Readout
  - ◆ Medical Imaging

### Contact us at:

P: +1 480-494-5618

E: [info@alphacoreinc.com](mailto:info@alphacoreinc.com)

### Visit us at:

304 S Rockford Dr

Tempe, AZ 85288 USA

