

# SIVI-SAADC0901

TSMC 180nm-G (1P5M)

## MAIN FEATURES

- Designed on TSMC 180nm-G
- 9-bit, 0.2 MS/S SAR ADC
- 1.2 Vp-p differential input range
- Low current consumption  
0.2mA
- Supply Voltage from 1.6V to 2.0V
- DNL =  $\pm 0.5$  LSB , INL =  $\pm 0.5$  LSB
- Operational temperature range  
from  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$

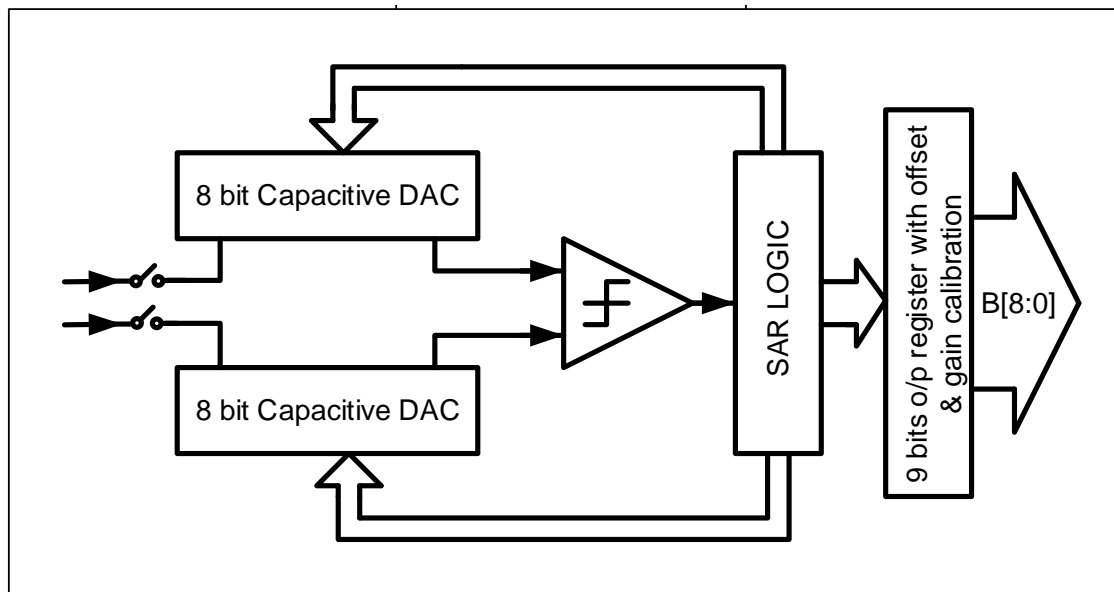
## IP DESCRIPTION

Silicon Vision SiVi-SAADC0901 is a high accuracy, low power SAR Analog to Digital Converter (ADC) IP core that offers 9-bit accuracy at a sampling rate of up to 0.2 MS/s. This IP is characterized by its low power consumption and small silicon area which make it very attractive to state of the art SoCs

SiVi-SAADC0901 is silicon proven in 180nm TSMC-G process technologies.

## APPLICATIONS

- On Chip Temperature sensing
- Battery Monitoring
- Supply Monitoring
- Buck Controllers



Block Diagram for SiVi-SAADC0901