

SIVI-PADC1001

SMIC 180nm-G (1P5M)

MAIN FEATURES

- Designed on SMIC 180nm-G
- 10-bit, 150 MS/S pipelined ADC
- Integrated S/H circuit and reference generator
- 1.2 Vp-p differential input range
- Low current consumption 54mA
- Architecture is based on opamp sharing for optimal power usage
- Power down mode and Automatic fast startup
- $DNL = \pm 3 \text{ LSB}$, $INL = \pm 3 \text{ LSB}$
- Operational temperature range from -40°C to 125°C

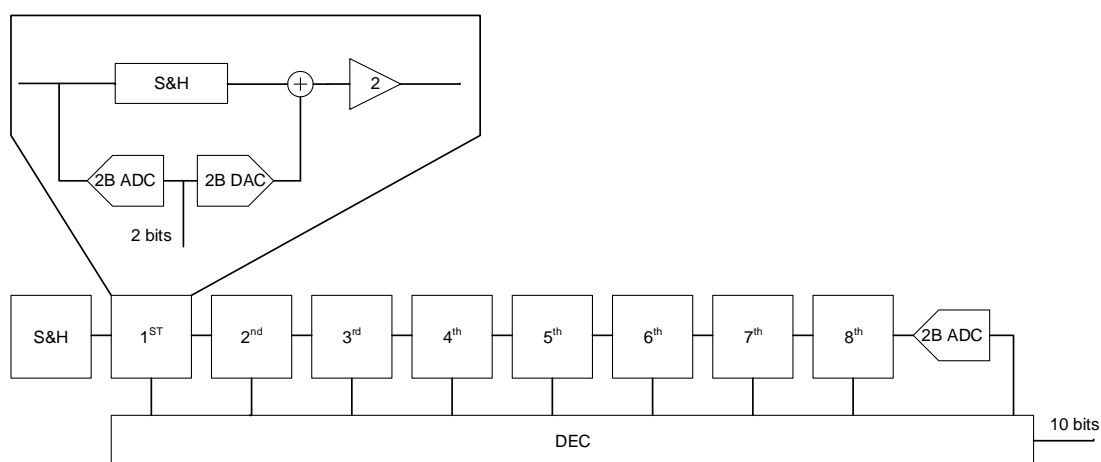
IP DESCRIPTION

Silicon Vision SiVi-PADC1001 is a high accuracy, high speed pipelined Analog to Digital Converter (ADC) IP core that offers 10-bit accuracy at a sampling rate of up to 150 MS/s. This IP is characterized by its low power consumption and small silicon area as it makes use of OPAMP sharing technique.

SiVi-PADC1001 is silicon proven in 180nm SMIC-G process technologies.

APPLICATIONS

- Video Analog Front Ends
- Analog front-end for wire bond communication
- Analog front-end for flat panel display and HDTV
- Base station receivers



Block Diagram for SIVI-PADC1001

