

SIVI-PADC1002

SMIC 180nm-G (1P5M)



MAIN FEATURES

- Designed on SMIC 180nm-G
- 10-bit, 36 MS/S
- Integrated S/H circuit and reference generator
- 1.0 V_{p-p} differential input range
- Low current consumption 17mA
- Signal bandwidth up to 7MHz
- Power down mode and Automatic fast startup
- DNL = +/- 2 LSB , INL = +/- 2 LSB
- Operational temperature range from -40°C to 125°C

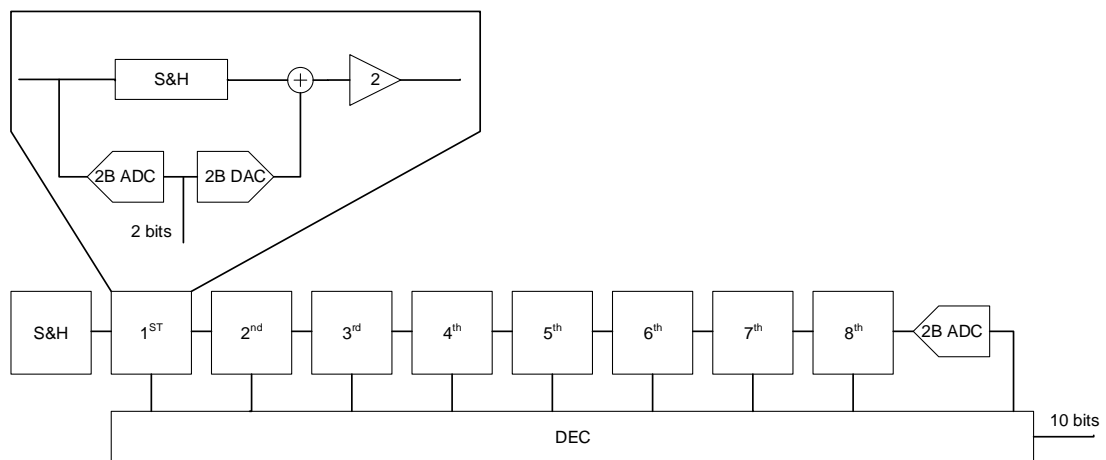
IP DESCRIPTION

Silicon Vision SiVi-PADC1002 is a high accuracy, high speed Analog to Digital Converter (ADC) IP core that offers 10-bit accuracy at a sampling rate of up to 36 MS/s with a bandwidth that is up 7MHz. This IP is characterized by its low power consumption and small silicon area as it makes use of OPAMP sharing technique.

SiVi-PADC1002 is silicon proven in 180nm SMIC-G process technologies.

APPLICATIONS

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



Block Diagram for SIVI-PADC1002



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