## CAE108 SARADC 8IL

The SARADC 8IL generation 5c is a standalone version of Caeleste's on-chip image sensor compatible SARADC family.

## **Features**

- Successive Approximation Register (SAR), interleaved 8-fold
- 12 bit default nominal resolution
- 14 bit and 16 bit resolution by in-ADC transparent oversampling, resulting in 12 and 13 ENOB
- 0.7LSB noise, 0.7LSB DNL, 4LSB INL in nominal mode.
- TID, SEU and SEL radiation tolerant
- Unsupervised calibration and code gap removal.
- Accepts pseudo-differential, fully differential and single-ended signals
- Input sample rate nominal 40 MHz
- Analog supply 3.3V
- Digital supply 1.8V
- differential (sub-)LVDS / CML output at 480 Mbps nominal rate

## **Application**

Companion ADC of space image sensors Companion ADC of cryogenic image sensors ADC for nuclear and hazardous environment inspection applications

## The evaluation kit includes

- Ceramic or COB packaged ADC8 prototype
- PCB board with socket
- Differential BNC input
- LVDS output
- Demonstration program running on PC via interface

