



65nm → 28nm

Design	CORDIA	FRIDA
ADC resolution	10-bit	10/12-bit
Conversion rate	2.5MHz	10 MHz
Area of one ADC	80x330 μm^2	50x200 μm^2
Power of one ADC	30 μW	100 μW
FOM_csa (conv/sec/area)	95 Hz/ μm^2	5000 Hz/ μm^2
FOM_epc (energy/conv)	12 pJ	10 pJ
FOM_ppa (power/area)	0.11 W/ cm^2	5.0 W/ cm^2
ADC qty Mpix @ 100 KHz	40000	10000
ADCs total pixel rate	100 Gpx/s	100 Gpx/s
ADCs total data rate	1 Tb/s	1 Tb/s
ADCs total area	10.5 cm^2	0.2 cm^2
ADCs total power	1.2 W	1.0 W

