



14-/12-Bit 310Mps Dual/Single ADC Family

	170Mps	210Mps	250Mps	310Mps
14-Bit	2155-14	2156-14	2157-14	2158-14
	2150-14	2151-14	2152-14	2153-14
12-Bit	2155-12	2156-12	2157-12	2158-12
	2150-12	2151-12	2152-12	2153-12
Power Consumption	284mW/Ch	308mW/Ch	325mW/Ch	362mW/Ch

 6x6 QFN	1.8V Single ADCs DDR LVDS Outputs	 9x9 QFN	1.8V Dual ADCs DDR LVDS Outputs
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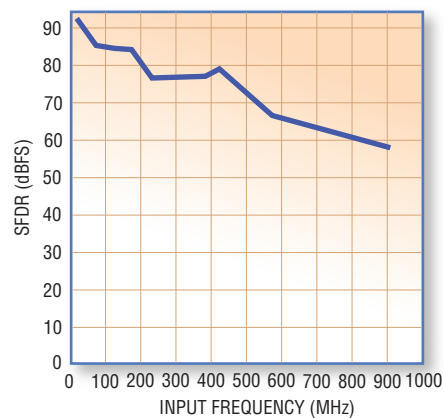
High Undersampling Performance to 900MHz

The LTC®2153 and LTC2158 are a family of single and dual, high IF sampling 14-/12-bit, 170Mps to 310Mps ADCs that maintain excellent SFDR performance at input frequencies up to 900MHz. These ADCs have been specifically designed to meet the needs of today's communications systems, where high undersampling capability saves cost by eliminating downconversion stages.

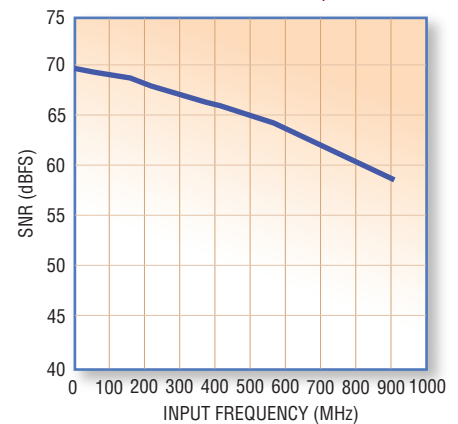
Features

- 1.8V Single-Supply Operation
- DDR LVDS Outputs
- Easy-to-Drive 1.5V_{p,p} Input Range
 - 1.32V_{p,p} for LTC2158/LTC2153
- 1.25GHz Full Power Bandwidth S/H
- Optional Clock Duty Cycle Stabilizer
- Low Power Sleep and Nap Modes
- Serial SPI Port for Configuration
- Easy Evaluation Using PScope™ Tool

LTC2157-14:
SFDR vs Input Frequency,
-1dBFS, 250Mps



LTC2157-14:
SNR vs Input Frequency,
-1dBFS, 250Mps



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High Speed ADC Portfolio

	10Msps	20Msps	25Msps	40Msps	65Msps	80Msps	105Msps	125Msps to 150Msps	170Msps	210Msps	250Msps	310Msps	
16-Bit	Single	2202	2201	2203	2204	2205 2215 2272	2206 2216 2273	2207 2217 2274	2208	2209	2107		
	Dual		2269	2160	2161	2162	2163	2164	2165				
14-Bit	Single	2245	2246	2247	2248	2249	2254	2255					
	Dual	2295	2296	2297	2298	2299	2284	2285	2155-14	2156-14	2157-14	2158-14	
	Quad		2140-14	2141-14	2142-14	2143-14	2144-14	2145-14	2122		2123		
	Octal		2263-14	2264-14	2265-14	2266-14	2267-14	2268-14					
12-Bit	Single	2225	2226	2227	2228	2229	2252	2253	2221	2220	2241-12	2242-12	
	Dual	2290	2291	2292	2293	2294	2282	2283		2155-12	2156-12	2157-12	2158-12
	Quad		2140-12	2141-12	2142-12	2143-12	2144-12	2145-12					
	Octal		2263-12	2264-12	2265-12	2266-12	2267-12	2268-12					
10-Bit	Single		2236	2237	2238	2239	2250	2251	2231	2230	2241-10	2242-10	
	Dual		2286	2287	2288	2289	2280	2281					

Parallel

6x6

1.8V Lowest Power, Single & Dual ADCs, CMOS/DDR CMOS/DDR LVDS

7x7

7x7

3.3V High SNR/SFDR ADCs, CMOS/LVDS

9x9

2.5V High SNR/SFDR ADC, DDR LVDS

9x9

3.3V/2.5V ADCs, CMOS/LVDS

9x9

1.8V High IF Undersampling Single & Dual ADCs, DDR LVDS

6x6

5x5

3V ADCs, CMOS

9x9

3V Dual ADCs, CMOS

Serial

6x6

3.3V Single ADCs, JESD204

7x8

1.8V Dual ADCs, Serial LVDS

7x7

1.8V Dual ADCs, JESD204B

6x6

1.8V Dual ADCs, Serial LVDS

7x8

1.8V Quad ADCs, Serial LVDS

11x9

1.8V Octal ADCs, Serial LVDS