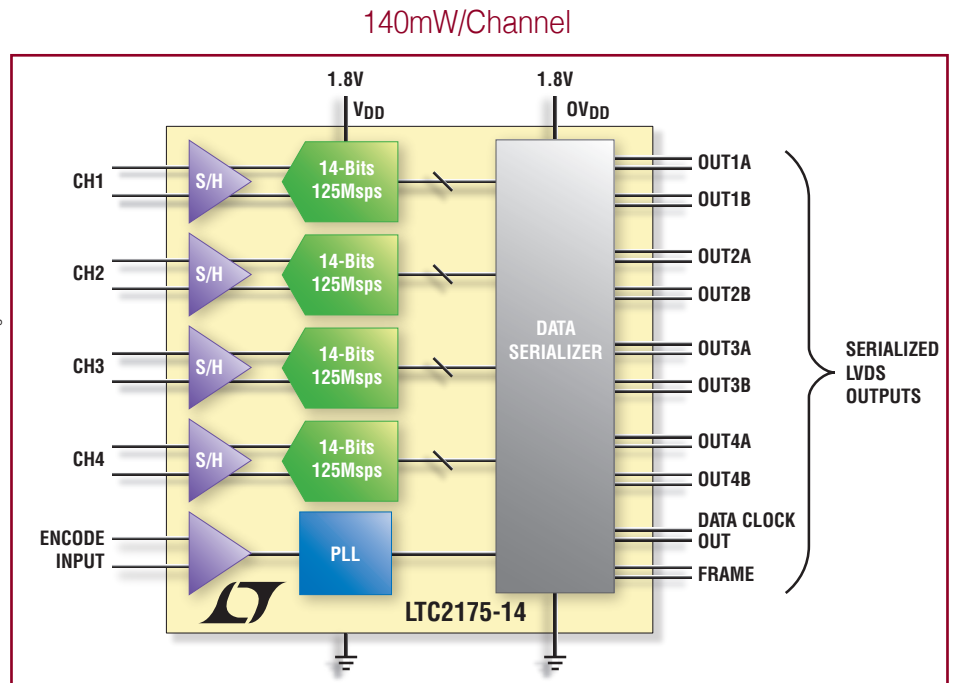


14-Bit/12-Bit 125Mps Quad/Dual ADC Family

Features

- Quad/Dual-Channel Simultaneous Sampling ADCs (LTC2175/LTC2268)
- 73.1dB SNR (14-Bit Resolution)
- 88dB SFDR
- Low Power: 140mW/Channel at 125Mps
- Single 1.8V Analog & Digital Supplies
- Serial LVDS Outputs
- Selectable Input Ranges: $1V_{P-P}$ to $2V_{P-P}$
- 800MHz Full-Power Bandwidth S/H
- Optional Data Output Randomizer
- Optional Clock Duty Cycle Stabilizer
- Shutdown and Nap Modes
- Serial SPI Port for Configuration
- Pin-Compatible 14-Bit and 12-Bit Versions
- Easy Multichannel Evaluation Using PScope™ Tool



One-Third the Power of Comparable High Speed ADCs

Our newest high speed ADC family achieves one-third the power consumption of alternate solutions without compromising AC performance. Operating from a low 1.8V supply, the 14-bit, 125Mps LTC®2175 dissipates only 140mW/channel while maintaining 73.1dB SNR and 88dB SFDR at baseband. Digital outputs can be configured as single lane (<65Mps) or dual lane serial LVDS.

	25Mps	40Mps	65Mps	80Mps	105Mps	125Mps
14-Bit	2170-14	2171-14	2172-14	2173-14	2174-14	2175-14
	2263-14	2264-14	2265-14	2266-14	2267-14	2268-14
12-Bit	2170-12	2171-12	2172-12	2173-12	2174-12	2175-12
	2263-12	2264-12	2265-12	2266-12	2267-12	2268-12
Power Consumption	40mW/ch	50mW/ch	80mW/ch	95mW/ch	110mW/ch	140mW/ch

	Quad ADC Serial LVDS Outputs		Dual ADC Serial LVDS Outputs
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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
	Quad			2170-14	2171-14	2172-14	2173-14	2174-14	2175-14			
	Octal			9006-14	9007-14	9008-14	9009-14	9010-14	9011-14			
12-Bit	Single	2225		2226	2227	2228	2229	2252	2253	2221	2220	2241-12
	Dual	2290		2291	2292	2293	2294	2282	2283		2155-12	2156-12
	Quad			2170-12	2171-12	2172-12	2173-12	2174-12	2175-12			
10-Bit	Single			2236	2237	2238	2239	2250	2251	2231	2230	2241-10
	Dual			2286	2287	2288	2289	2280	2281			2242-10

Parallel



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



3.3V High SNR/SFDR ADCs, CMOS/LVDS
2.5V High SNR/SFDR ADC, DDR LVDS



3.3V/2.5V ADCs, CMOS/LVDS
1.8V High IF Undersampling Single & Dual ADCs, DDR LVDS



3V ADCs, CMOS
3V Dual ADCs, CMOS

Serial



3.3V Single ADCs, JESD204
1.8V Dual ADCs, Serial LVDS
1.8V Dual ADCs, JESD204B
1.8V Dual ADCs, Serial LVDS
1.8V Quad ADCs, Serial LVDS
1.8V Octal ADCs, Serial LVDS