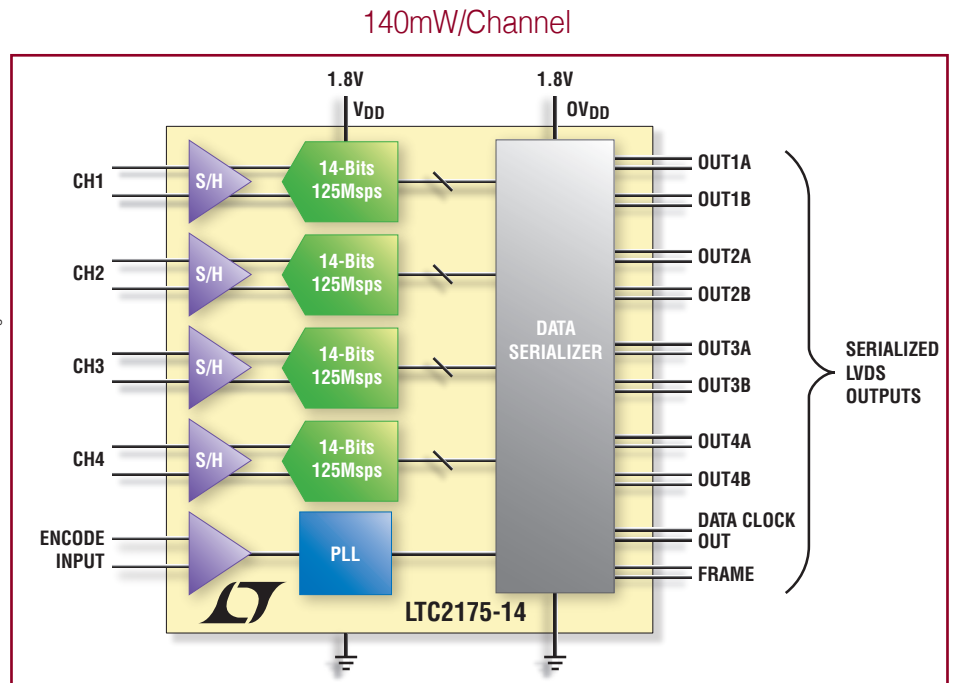


14-Bit/12-Bit 125Mps Quad/Dual ADC Family

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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www.BDHC.com/Linear

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			
16-Bit	Dual											
		2269	2160	2161	2162	2163	2164	2165				
14-Bit	Single											
	2245		2246	2247	2248	2249	2254	2255				
14-Bit	Dual											
	2295		2296	2297	2298	2299	2284	2285	2155-14	2156-14	2157-14	2158-14
14-Bit	Quad											
			2170-14	2171-14	2172-14	2173-14	2174-14	2175-14				
14-Bit	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	2242-12
12-Bit	Dual											
	2290		2291	2292	2293	2294	2282	2283	2155-12	2156-12	2157-12	2158-12
12-Bit	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	2242-10
10-Bit	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

9x9

3.3V/2.5V ADCs, CMOS/LVDS

9x9

6x6

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

9x9

5x5

3V ADCs, CMOS

9x9

3V Dual ADCs, CMOS

Serial

6x6

3.3V 2-Wire Serial JESD204 ADCs

7x8

1.8V Dual ADCs, Serial LVDS

6x6

1.8V Dual ADCs, Serial LVDS

7x8

1.8V Quad ADCs, Serial LVDS

11x9

1.8V Octal ADCs, Serial LVDS