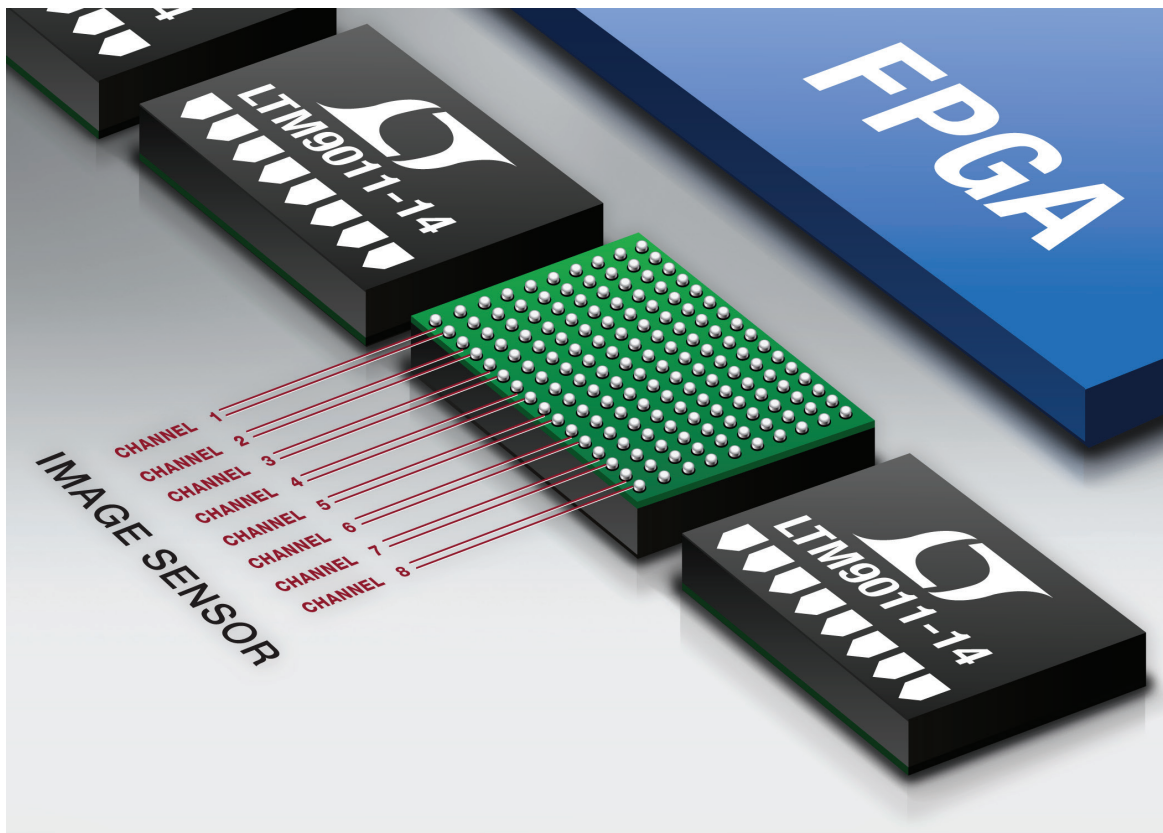


14-Bit 125Msps, Octal ADC

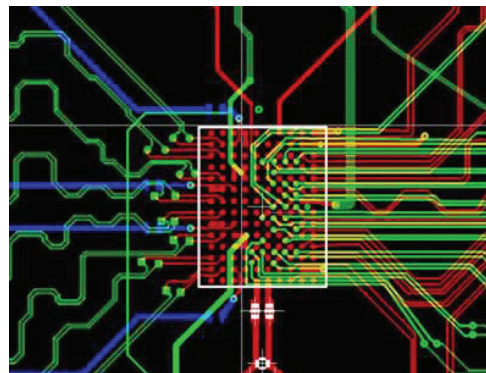


The LTM[®]9011-14 is part of a family of 14-bit, 25Msps to 125Msps octal ADCs that provide excellent AC performance and low power in a small form factor. The BGA μ Module[®] packaging allows the integration of bypass capacitance and provides a flow-through pinout, reducing the required board area for routing data I/O lines and simplifying layout.

Features

- 8-Channel Simultaneous Sampling ADC Family
- 125Msps/105Msps/80Msps Versions
 - 140mW/113mW/94mW per Channel
- 65Msps/40Msps/25Msps Versions
 - 88mW/59mW/46mW per Channel
- 73.1dB SNR, Up to 90dB SFDR
- Single 1.8V Supply
- Serial LVDS Outputs: 1 or 2 Bits per Channel
- Selectable Input Ranges: $1V_{P-P}$ to $2V_{P-P}$
- 800MHz Full-Power Bandwidth S/H
- Shutdown and Nap Modes
- Internal Bypass Capacitance, No External Components
- 140-Pin (11.25mm \times 9mm) BGA Package
- Easy Evaluation Using the PScope[™] Tool

LTM9011 (DC1751A)
Demo Board Layout



LT, LT, LTC, LTM, Linear Technology and the Linear logo are registered trademarks of Linear Technology Corporation. All other trademarks are the property of their respective owners.

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 2274	2207	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	2157-12
	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

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

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