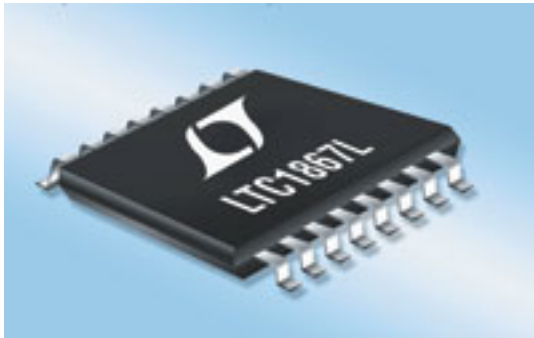


Multi-channel A/D Converter



Linear Technology introduces the LTC1867L, a 16-bit, 8-channel, 175 ks/s, 3 V supply analog to digital converter. The converter draws 2.7 mW_{MAX} at full speed. The power automatically drops at reduced speeds, typically 0.9 mW at 50 ks/s. This device maintains good DC performance providing 16-bit no missing codes over temperature and ± 3 LSB_{MAX} INL. The device offers an easy to use multiplexer and serial interface. The multiplexer allows any combination of single-ended inputs or differential inputs in either unipolar (0 to 2.5 V) mode or bipolar (± 1.25 V) mode. The accuracy of the ADC is independent of the shift clock frequency, allowing these parts to operate in opto-isolation or low power applications. The device is also available in a 12-bit version, the LTC1863L.

Linear Technology Corporation

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