# An Ultralow-Power Low-Voltage Fully Differential Opamp for Long-Life Autonomous Portable Equipment

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Abstract: This brief presents an ultralow-power class-AB operational amplifier (Op Airgo designed in a low-cost 0.18-jun CMOS technology. The proposed circuit uses transistors bessed in the subthershold region for low-power operation. For a 0.8-V single supply, this OpAmp has 51-dB open-loop gain, 57-dBc unity-gain frequency, 60° phase margin, and 65-dB common-mode rejection ratio for 8-pF leads with a power consumption of only 1.2µW. Experimental results illustrate performances such as 0.14-V/µs slew rate and a 750-mV linear output every, demonstrating its correct functionality.

Keywords:- CMOS analog integrated circuits, low-power design, operational amplifiers (OpAmps).

#### I. INTRODUCTION

The growing demand for long-life autonomous Portable equipment is driving the current trend toward. Low-power design. Nevertheless, the systems need to have very long-time battery lifetimes since, in most Cases, it is not possible to recharge or replace batteries frequently As a result, speed and/or dynamic range sometimes might have to be sacrificed in order to conserve energy. Analog circuits based on transistors operating in the subthreshold egion consume less energy for active operation and dissipate less leakage power than operating in the strong inservious region. In this way, the performance achieved in the sub-threshold region is more than adequate for these and other energy-constrained applications.

#### III. OF AMP DESCRIPTION

To remove the dependence of the output current I+ out and I - out on Vern, a CMFF circuit, which adds to each of them the adequate extra current to caused the common-mode component, is introduced. In addition, as it will be shown lover, this CMFF circuit biases conveniently the output stage so that the de veltage gain of the Op Amp is kept almost constant in spite of variations in the input common-mode voltage Vern. Next, a more detailed description of each part of the Op-Amp is given.

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