

## **Business**

Amalfi® Semiconductor was established in 2003 with the vision to develop a new generation of very high-performance radio silicon for the cellular handset market. Recognizing power consumption in most handsets is heavily driven by power amplifier efficiency, the company focused its advanced engineering capabilities on developing a new generation of power amplifiers that use standard bulk Complementary Metal Oxide Semiconductor (CMOS) technology. The result of this effort is the patented Amalfi AdaptiveRF™ CMOS power amplifier architecture, which offers significant performance, cost and integration advantages over today's power amplifiers based on Gallium Arsenide (GaAs) or Indium Gallium Phosphate (InGaP) process technology.

## **Technology**

AdaptiveRF is an advanced silicon architecture that enables the development of CMOS power amplifiers for cellular handsets. This advanced technology has overcome the efficiency performance barrier that CMOS has experienced in the past. The AdaptiveRF architecture has proven to achieve better Power Added Efficiency (PAE) than leading GaAs power amplifiers under real-world operating conditions of reduced output power, low battery voltage and antenna mismatch. This greater PAE results in increased talk time or allows use of smaller, lower cost batteries and sets a new performance standard for cellular phones. AdaptiveRF also leverages the availability of high volume, low cost CMOS foundry capacity, providing manufacturers with a lower risk, lower cost solution when ramping into high volume production.

## **Products**

The Amalfi Stratos™ Product Family represents the industry's first single-chip CMOS power amplifier devices that meet the stringent power efficiency standards of GSM/GPRS/EDGE mobile phones. These high-performance power amplifier chips reduce battery electrical current requirements, enabling cellular manufacturers to deliver phones with greater than 20 percent improvement in usage time, thinner designs, and additional functionality, such as mobile TV, MP3 player and video camera. The Stratos chips also improve manufacturability and lower overall system cost of cellular phones.

## **Market**

Amalfi's CMOS power amplifier devices are targeted at the cellular handset market. The RF portion of the cellular handset market has evolved over the years into a multi-billion dollar market. Handset hardware technology has constantly advanced to accommodate users' requirements. However, the power amplifier hardware has primarily remained unchanged due to the difficulty of achieving the high power output requirements at very high levels of efficiency required by today's cellular phones. Amalfi has overcome this challenge with its AdaptiveRF architecture, enabling cellular manufacturers for the first time to take advantage of the cost, power and integration advantages that CMOS power amplifiers can offer. Amalfi believes that its advanced technology has the ability to drive a revolutionary change in the design and performance of cellular handsets.

## **Team**

Amalfi was founded in January 2003 by a team of experienced business professionals and highly skilled engineers to solve some of the most challenging problems associated with wireless communications. The company has assembled a uniquely talented group of leaders with analog mixed signal, RF design and systems experience from such companies as ADI, Agere, Apple, Broadcom, Crystal Semiconductor, Ericsson, Infineon, Intel, Linear Tech, Marvell, Maxim, Motorola, Philips, RFMD, Silicon Labs, Sony-Ericsson, Skyworks, TI, Tropian, and Volterra. This talented group is committed to creating innovative architectures and breakthrough technologies. The combination of innovation and commitment to solve challenging system problems will drive the company's rapid growth over the next decade.

## **Financials**

Amalfi is a privately held company. The company has strong financial backing with funding from private investors and industry leading venture capital companies, which include Battery Ventures, DCM, Globespan Capital Partners, and Trinity Ventures.

## **Location**

Amalfi's headquarters are located in Los Gatos, Calif. in the southern section of Silicon Valley. For more information, contact Amalfi at +1-408-399-5360 or [www.amalfi.com](http://www.amalfi.com).