

## DESCRIPTION

FC7510 is primarily designed for a receiver LNA of FCI's zipRF™ family for the dual-band, triple-mode system, operating in the advanced mobile phone system (AMPS), cellular/PCS code-division multiple-access (CDMA) system. This chip provides three-step gain control via SPI (Serial-Parallel Interface) to improve dynamic range and receiver performance. The LNA bias currents are also controlled by SPI to optimize overall performance and power consumption. FC7510 is manufactured with a SiGe BiCMOS process, and is packaged in a lead-free small package, named 4mmx4mm BMLF-16.

## APPLICATIONS

- AMPS-mode mobile phone
- CDMA-mode mobile phone
- CDMA-mode PCS mobile phone
- J-CDMA mode mobile phone
- General purpose LNAs

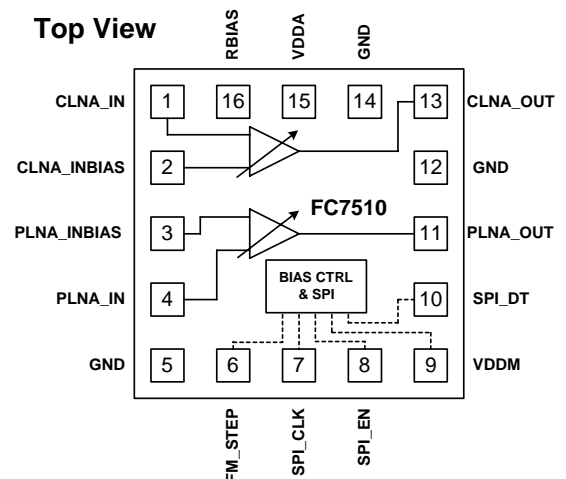
## REVISION HISTORY

- **Tentative** version datasheet release: Jul. 2004.
- **Preliminary** version datasheet release: Sep. 2004.
- **Preliminary** version datasheet release: Nov. 2004.
- **Preliminary** version datasheet release: Jan. 2005.
- **Preliminary** version datasheet release: Apr. 2005.
- **Preliminary** version datasheet release: May. 2005.

## FEATURES

- Dual band operation: Cellular & PCS
- Triple mode operation:  
Cellular CDMA/AMPS, PCS CDMA
- Triple gain step LNA: Cellular/PCS CDMA
- Low single voltage operation
- Low noise figure and high linearity
- Low power consumption
- 4mm x 4mm lead-free BMLF-16 package

## PIN CONFIGURATION



For latest specifications, technical questions and additional product information, visit website or e-mail

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