

GSM900/1800/1900 Dual/Triple Band Rx/Tx GSM/GPRS Transceiver Module CXM3000GA

Description

The CXM3000GA is a module for the RF section of GSM/GPRS handsets containing a fast-lock synthesizer and RF transceiver.

Features

- ◆Receiver, transmitter, dual PLL, RF + IF VCOs
- Dual fast lock PLL (< 140 μs)
- No external RF or IF LO required
- Extremely small size: 8.0 × 8.0 × 1.3 mm
- Programmable baseband interface
- Tx sum-loop modulator
- Power save control on all functions
- Rx current 55 mA 3.0 V
- ●Tx current 75 mA 3.0 V
- On-chip LNA bias control
- On-chip transmit IF filtering
- •3-wire serial bus control
- ●60-pin LFLGA module package

Functions

- Receive down-conversion mixers × 2
- PGA IF amplifier (programmable gain amplifier)
- IQ demodulator and baseband filters
- IQ modulator (single sideband)
- Tx sum-loop mixer and phase detector
- LNA temperature compensated bias control
- VCOs with the on-chip RF and IF

Applications

- •GPRS class 12
- GSM900/1800/1900 triple band
- GSM900/1800 dual band
- •GSM900/1900 dual band
- GSM900 single band
- GSM1800 single band
- ●GSM1900 single band

Structure

Land grid array plastic multi-chip module

Absolute Maximum Ratings

- Supply voltage Vcc −0.3 to +4.0 V
- Operating temperature

Topr -25 to +85 °C

Storage temperature

Tstg -65 to +150 °C

Operating Conditions

Supply voltage Vcc 2.7 to 3.6 V