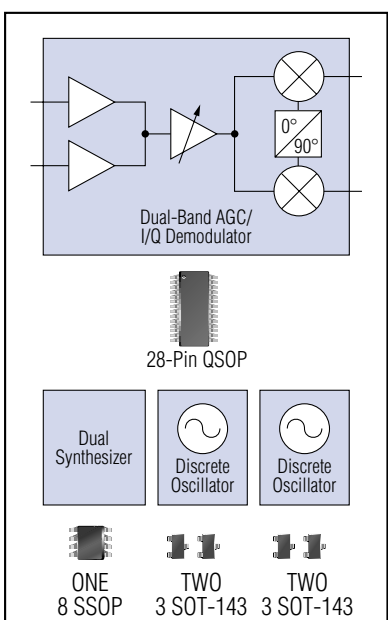


# DUAL-BAND CDMA IF RECEIVER INTEGRATES 2 VCOs AND SYNTHESIZERS IN A 28-PIN QSOP!

## 2.7V IC Offers Industry's Highest Integration Level

The new MAX2310 is a dual-band AGC amplifier with I/Q downconverter IC designed for dual-band, dual-mode N-CDMA and W-CDMA cellular phone systems. Unlike other devices, the MAX2310 also includes dual oscillators and synthesizers to form a self-contained IF subsystem. The synthesizer's reference and RF dividers are fully programmable via a 3-wire serial bus enabling dual-band system architectures using any common reference and IF frequencies. The differential baseband outputs have enough bandwidth to suit both N-CDMA and W-CDMA systems.

### GET ALL THIS



### IN THIS!



Single-chip  
MAX2310  
28-PIN QSOP

### Features:

- ◆ Dual-Band AGC and Dual VCO/Synthesizer
- ◆ 28-Pin QSOP
- ◆ Guaranteed 2.7V Operation
- ◆ Over 110dB Dynamic Range
- ◆ 40MHz to 300MHz IF Input Range
- ◆ High Input IP3: (-33dBm @ 35dB Gain, 1.5dBm @ -35dB)
- ◆ 2.1V<sub>p-p</sub> Saturated Output at 2.75V Supply
- ◆ Pin-Compatible Single-Band Versions (MAX2312/MAX2314)
- ◆ LO Output Buffer (MAX2312/MAX2316)

The MAX2310 integrates dual VCOs and synthesizers with a dual-band AGC I/Q downconverter function, saving valuable board space and cost in CDMA phones.



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