



BCM3440 DIRECT CONVERSION SATELLITE TUNER

BCM3440 FEATURES

- Direct conversion architecture in standard CMOS process
- Supports QPSK and 8PSK demodulation
- Input frequency range: 950 to 2150 MHz
- Supports 1 to 45 Mbaud data rates
- Input signal: -25 to -70 dBm
- Baseband in-phase and quadrature outputs
- Programmable bandwidth I/Q baseband filters
- Integrated LO with on-chip VCO and PLL
- Integrated LNA with RF AGC
- On-chip IF AGC
- Two wire I²C host interface
- Differential signals for high noise immunity
- Uses a low-cost crystal
- 3.3V operation
- 48-pin TQFP

SUMMARY OF BENEFITS

- Designed to work with the BCM4500 and BCM4201 satellite receivers
- Operates across entire satellite L-band frequency range
- Extremely low phase noise for operation with 8PSK modulation systems
- Highly integrated solution minimizes design time and system cost
- Operates using single 3.3V supply to eliminate the need for 5V
- Complete reference design available to minimize customer RF expertise requirement

BCM3440 Tuner Application Example (Satellite Set-Top Box)

