



ADVANCED DIGITAL CABLE TUNER

FEATURES

- Supports 64 and 256 QAM
 - Input frequency range of 50 MHz through 860 MHz *
 - IF output range of 36 MHz through 44 MHz
 - High linearity across entire frequency range
 - Differential signals for high noise immunity
 - Eliminates need for image reject mixer
 - Highly integrated and cost-effective
 - Minimal BOM with reference designs available
 - IF AGC and frequency synthesizers included
 - Standard logic CMOS with single 3.3V supply
 - 48-pin TQFP
- * = For use only in applications where the input frequency to the diplexer is less than 1000 MHz.

SUMMARY OF BENEFITS

- Narrowband first IF eliminates processing of unnecessary channels
- DOCSIS and EuroDOCSIS 1.0/1.1/2.0 compliant
- Minimal in-house RF expertise required
- Superior alternative to can tuners
 - High quality and reliability (no hand tweaking)
 - Enables lower profile and smaller designs
 - Simplified manufacturing flow
 - Lower BOM cost
- Applications
 - Cable modems
 - Cable set-top boxes

Tuner Application Example (Cable Modem)

