

Silicon Tuner for Digital Cable and Terrestrial Set Top Boxes Touts 3.8 DB Noise Figure

MaxLinear announced the MxL603, its next-generation high-performance TV tuner for digital cable and terrestrial set-top box applications. Based on low-power 65-nm digital CMOS process technology, the tuner supports all global digital cable and terrestrial television reception standards, including: DVB-T/T2, ISDB-T, ATSC, ATSC M/H, DTMB, ITU J.83 Annex A/B/C, DVB-C2, DOCSIS and EuroDOCSIS. The device is software-configurable for any of these standards, allowing manufacturers to re-use designs in multiple markets. It features an RF loop-through port, an accurate input power detector and was specifically designed to exceed the requirements of new broadcast standards such as DVB-T2/C2. Additionally, the MxL603 provides desirable rejection of out-of-band interference from 4G/LTE, Wi-Fi, MoCA and EoC signals, without the need for expensive external filters associated with legacy solutions. The MxL603 delivers an exceptional noise figure of 3.8 decibels (dB). The device also includes the company's leading edge blocker immunity technology for advanced filtering of strong signals from adjacent channels. Additionally, the device provides power consumption of approximately 350 milliwatts (mW) in digital terrestrial mode. The low power consumption and high level of integration enable low-cost, two-layer tuner-on-board implementations as well as ultra-small tuner modules without the need for expensive heat sinks or four-layer PCBs.

MaxLinear, Inc.

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[1] <http://www.maxlinear.com>