

SET-TOP BOX SERIES SINGLE LNB CONTROLLER AND POWER SUPPLY IC

Summary

The ZLPM8011 is a power management and control solution for satellite set-top boxes (STBs). Based on an efficient boost converter the ZLPM8011 provides the power supply and all the control signals required by a single port satellite Low Noise Block (LNB). The ZLPM8011 includes an accurate 22kHz tone generator to provide DiSEqC™ control words or continuous tone for band switching control. To provide a reliable DiSEqC 2.0 solution the IC includes a DiSEqC detector with unwanted signal rejection. Controlled by an I²C™ compatible interface or logic inputs and with the minimal external components the ZLPM8011 provides a high performing, efficient cost efficient solution.

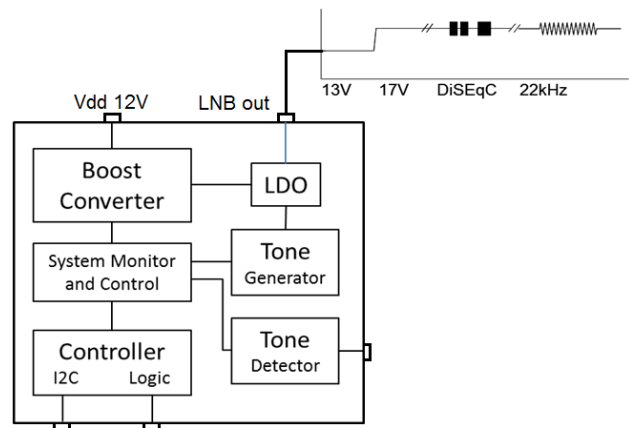
Features

- High system efficiency with standby mode
- Efficient boost converter and LDO providing an accurate adjustable power supply for LNBs
- Provides a protected output of up to 450mA
 - Programmable current limit for system flexibility
- Designed for stability with low power LNBs
- Provides standard voltage / tone and DiSEqC control signals and allows for regional variations such as Japan.
 - Internal tone generator for DiSEqC control and traditional band switching
 - Tone maintains shape across all load conditions
- Internal reliable tone detector for DiSEqC 2.0 systems
- Controlled by I²C interface or independent logic control
- Built in multiple diagnostics and protection for IC and LNB protection
- Minimal external components for a simple, reliable and cost effective solution
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. “Green” Device (Note 3)**

Applications

- Single tuner Satellite Set-top boxes
 - High current LNBs
 - Stability with minimal current LNBs
- Satellite PC Cards
- TV's with integrated satellite tuners
- Hybrid Set-top boxes
- Suitable for Digital and Analog satellite systems

System Diagram



Notes: 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
 2. See <http://www.diodes.com> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

DiSEqC is a trademark of Eutlesat.
 I²C is a trademark of Philips Corp.

To Request This Datasheet
In Its Entirety Please Email

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