

500mA LNB-Power Supply & Control Voltage Regulator

FEATURES

- Low noise output to avoid sensitivity of Can Tuner and DISH's LNA dropping down
- Noise < +/-50mV@350MHz BWL,
- Noise < +/-35mV@20MHz BWL
- Single chip solution on 700mVpp 22KHz EXTm with 10 μ s Trise/Tfall for less Transferring noise
- LNB Voltages (2 levels: 14V and 19V) compatible with common standards, Push-pull output stage minimizes 14 \rightarrow 19V and 19V \rightarrow 14V output transition times;
- External 22KHz EXTm input;
- Integrated DC/DC BOOST converter and high efficiency (typ. 87%) with integrated Power Mos-FET
- 1.0MHz Switch Frequency BOOST
- Integrated low Noise Linear Regulator
- 5.0V, 3.3V, 2.5V, 1.8V , logic compatible
- Internal Short, OCP,OTP, protection
- ESOP8L package

APPLICATIONS

- LNB Power supply for DVB-S/S2/ABS
- Digital STB
- Satellite TV cards

GENERAL DESCRIPTION

Intended for analog and digital satellite receivers/sat-TV, sat-OC cards, the STI8039 is a monolithic voltage regulator and interface IC, packaged in ESOP8L, specifically designed to provide the 14/19V power supply with high efficiency and the 22kHz TONE signaling to the LNB down-converter in the antenna dish or to the multi-switch box. STI8036 consists of a BOOST converter and a low-noise linear regulator along with the circuitry required for TONE injection and pin controllable interface. The device makes the total LNB supply design simple, efficient and compact with low external component count

The external modulation input (TONE pin) can accept a tone modulated DiSEqC command and transfer it symmetrically to the output to meet DiSEqC 1.x protocol

EFFICIENCY

