Space-saving Supply and Voltage Regulators

Intersil announced the release of the ISL6422B and ISL6423B LNB supply and control voltage regulators. These energy efficient regulators are said to be the industry's first to use an I^2C interface to improve system reliability by reporting diagnostics and protecting a satellite set top box (SSTB) against overvoltage, overcurrent, over temperature and backward current. With a supply current of 4.0 mA, a standby current of just 1.5 mA, and a typical dropout voltage of 0.8V, these devices offer desirable power dissipation. The input voltage range of 8V to 14V also provides enhanced design flexibility, allowing designers to use the existing power rail in most SSTBs. The 440 kHz switching frequency enables the use of smaller capacitors and inductors. The devices also have internal error feedback loop compensation that eliminates the need for two capacitors and one resistor. The ISL6422B (dual output) has five current range settings up to 750 mA, and the ISL6423B (single output) has four current range settings up to 750 mA. This enables SSTB manufacturers to design systems to their specific power budget needs. These devices feature remote device control and FLT-bar interrupt pin. Both the devices feature a built-in tone oscillator factory trimmed to 22 kHz and a decoder that facilitates the use of DiSEqC 2.0 (EutelSat) protocol. An external modulation input also allows the DiSEqC modulation of an externally generated tone protocol be it the envelope or a 22 kHz modulated stream.
Intersil
888-468-3774, www.intersil.com [1]

Source URL (retrieved on *09/14/2014 - 10:31pm*):
http://www.ecnmag.com/product-releases/2007/08/space-saving-supply-and-voltage-regulators?qt-recent_content=0&qt-most_popular=0

Links:
[1] http://www.intersil.com/