

1 Description

The STB6100 ASIC is a highly integrated, low-cost direct conversion (zero IF) tuner IC for DVB-S2 broadcast satellite applications.

This device includes an LNA, down-converting mixers, baseband low-pass filters, gain control, on-chip VCO and a low noise PLL. Its wide gain control range is well suited for low symbol rate applications.

The STB6100 is controlled by a simple two-wire interface and has been designed to minimize the external bill of materials to reduce manufacturing costs and to simplify the board layout. The reduced component count ensures greater system reliability leading to increase consumer satisfaction.

The DVB-S2 standard increases the capacity of satellite broadcasts by as much as 30%, so enabling the effective deployment of high data rate applications such as high definition TV and broadband internet. Packaged in VFQFPN2 5x5x1.0 32 pitch 0.50 package, it is ideal for low cost DBS design.

2 ECOPACK®

In order to meet environmental requirements, ST offers these devices in different grades of ECOPACK® packages, depending on their level of environmental compliance. ECOPACK® specifications, grade definitions and product status are available at: www.st.com. ECOPACK® is an ST trademark.

3 Revision history

Table 2. Document revision history

| Date | Revision | Changes |
|--------------|----------|-----------------------------|
| 05-Sept-2004 | 1 | Initial release. |
| 21-Apr-2009 | 2 | Supported features updated. |

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