**STV0903**

Multi-standard advanced demodulator for satellite digital TV and data services set-top boxes

### Features

- **Demodulation**
  - DIRECTV™ and DVBS QPSK
  - DVBS2 QPSK and 8PSK
  - Digital Nyquist root filter with 0.20, 0.25, 0.35 excess bandwidth factors

- **Decoding**
  - Up to 95 mega channel bits per second (Mcbps) at input to DVBS2 FEC
  - Up to 130 Mcbps DVBS or DIRECTV™ at input to legacy FEC

- **Interfaces**
  - Dedicated 27 MHz clock generation for back-end decoder
  - I²C serial bus interface
  - JTAG interface - boundary scan
  - DiSEqC™ 2.x interface
  - GPIOs and interrupt lines
  - Monitoring through I²C serial interface
  - FSK modem

- **Technology**
  - 90 nm CMOS process
  - Power saving features

- **Package**
  - LQFP-128-EP 14x14, 0.4 mm pitch, RoHS.

### Description

STV0903 is a high performance satellite demodulator capable of handling DVB-S, DIRECTV™ legacy and DVBS2 (QPSK and 8PSK) constant coding and modulation signals for satellite broadcast.

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For further information contact your local STMicroelectronics sales office.

www.st.com
1 Application

Figure 1. Application diagram for DVB-S2 front-end system
2 Ordering information

Table 1. Ordering information

<table>
<thead>
<tr>
<th>Order code</th>
<th>Packaging</th>
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<tbody>
<tr>
<td>STV0903BAB</td>
<td>LQFP128-14 x 14 mm</td>
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3 Revision history

Table 2. Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
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<tr>
<td>21-Aug-2008</td>
<td>1</td>
<td>Initial release.</td>
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