

# STV0903

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

Data Brief

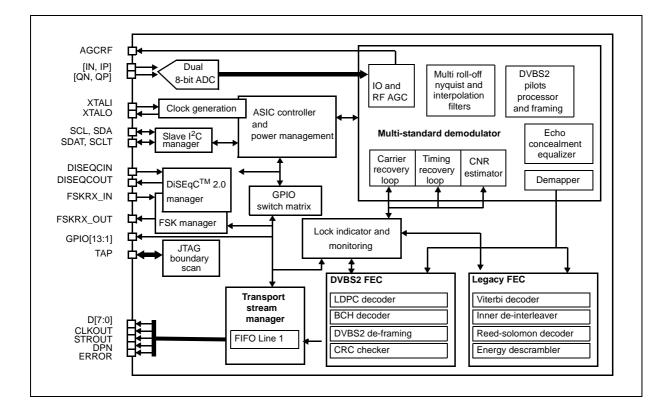
### Features

- Demodulation
  - DIRECTV<sup>TM</sup> 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<sup>TM</sup> at input to legacy FEC
- Interfaces
  - Dedicated 27 MHz clock generation for back-end decoder
  - I<sup>2</sup>C serial bus interface
  - JTAG interface boundary scan

- DiSEqC<sup>TM</sup> 2.x interface
- GPIOs and interrupt lines
- Monitoring through I<sup>2</sup>C 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<sup>TM</sup> legacy and DVBS2 (QPSK and 8PSK) constant coding and modulation signals for satellite broadcast.

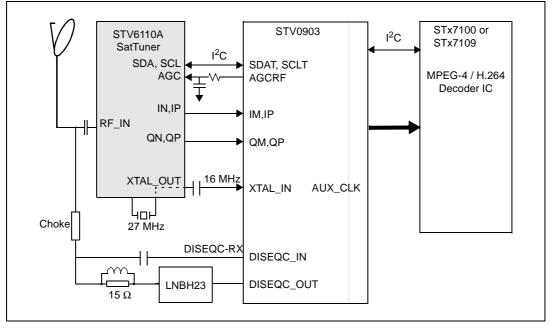


#### August 2008

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For further information contact your local STMicroelectronics sales office.

### 1 Application







## 2 Ordering information

#### Table 1. Ordering information

Order code	Packaging
STV0903BAB	LQFP128-14 × 14 mm



## 3 Revision history

#### Table 2.Document revision history

Date	Revision	Changes
21-Aug-2008	1	Initial release.



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