

STV0903

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

Data Brief

Features

Demodulation

- DIRECTVTM 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 DIRECTVTM at input to legacy FEC

■ Interfaces

- Dedicated 27 MHz clock generation for back-end decoder
- I²C serial bus interface
- JTAG interface boundary scan

- DiSEqCTM 2.x interface
- GPIOs and interrupt lines
- Monitoring through I²C serial interface
- FSK modem

■ Technology

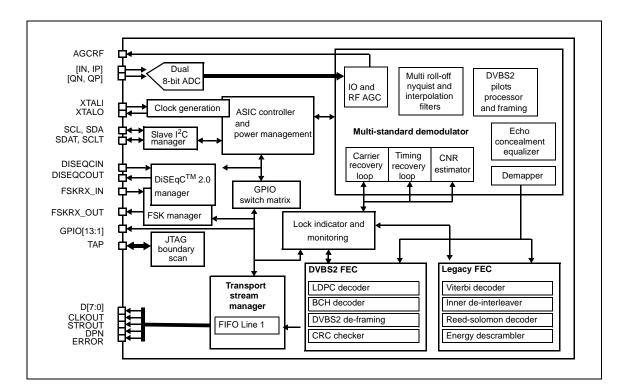
- 90 nm CMOS process
- Power saving features

■ Package

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

Description

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

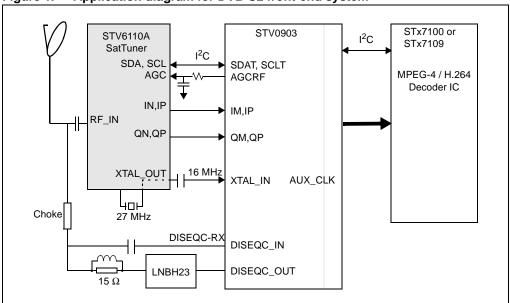


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Application STV0903

1 Application

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



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2 Ordering information

Table 1. Ordering information

Order code	Packaging
STV0903BAB	LQFP128-14 x 14 mm

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Revision history STV0903

3 Revision history

Table 2. Document revision history

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

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