



STV0903

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

Data Brief

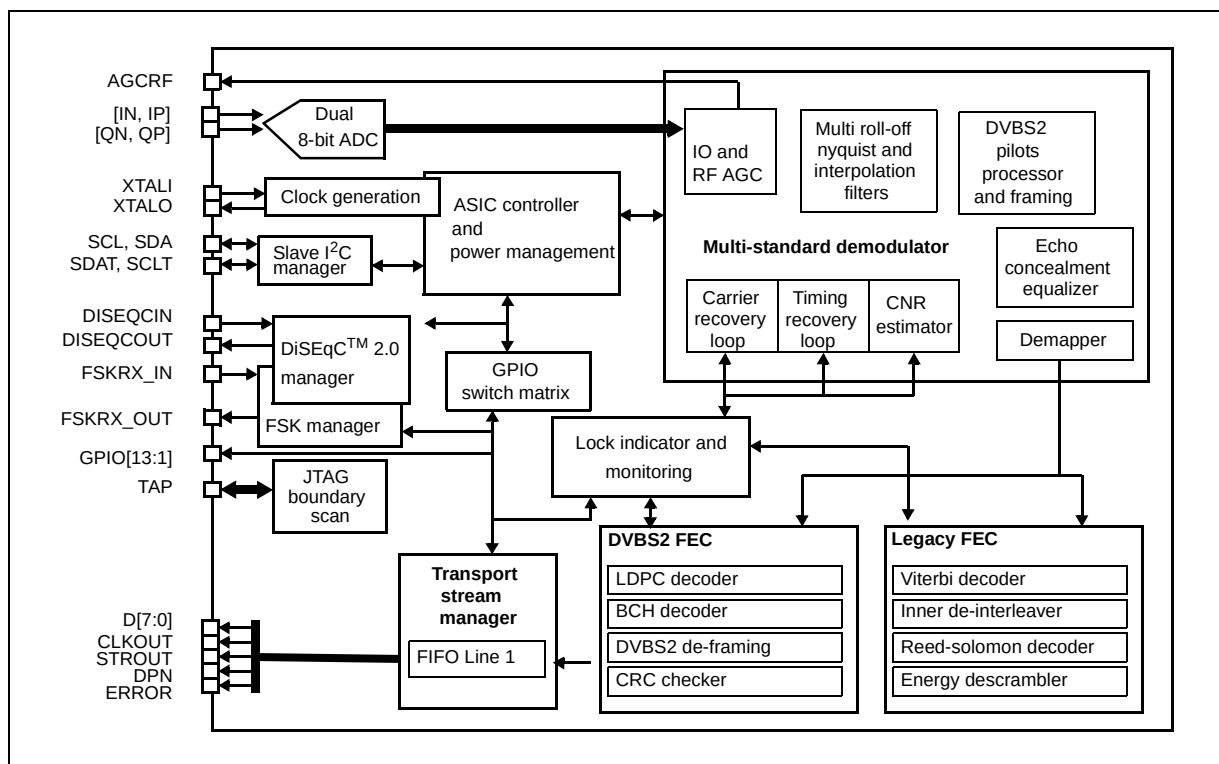
Features

- 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.

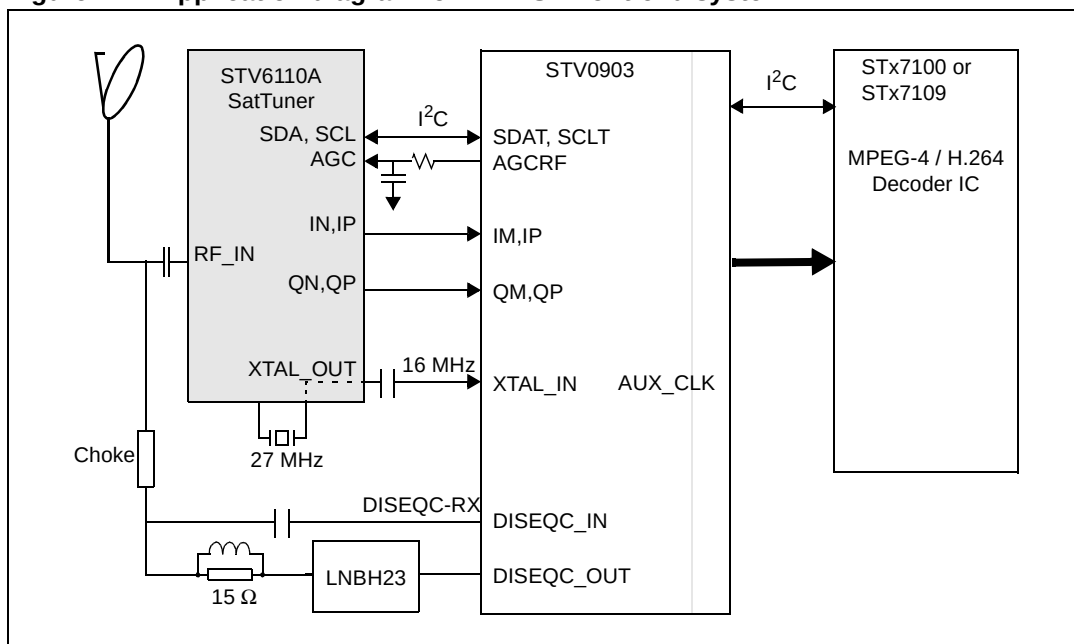
Description

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.



1 Application

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



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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