Description STi5107

1 Description

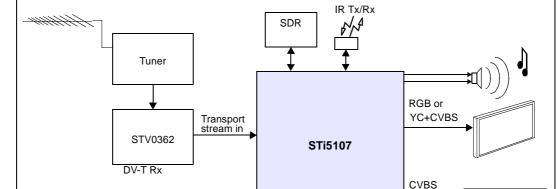
1.1 General

The STi5107 is the latest in the family of Omega2 set-top box ICs providing a high-performance, low-cost system-on-chip(SoC) for MPEG processing in cable, satellite or digital terrestrial STBs. It is a pin compatible IC derived from the STi5105, that supports multiple platform using a unified architecture. STi5107 is compatible with the latest CA advanced security specifications.

The STi5107 delivers enhanced performance with respect to previous devices. Main memory is based upon a single 16-bit external SDR SDRAM.

The display architecture of the device is based upon a high performance blitter engine that supports CLUT8 and RGB16 formats for background, video and OSD/graphics displays. It makes the porting of middleware easier with greater rendering.

1.2 Applications



Smart Card

Flash

Figure 1. Basic terrestrial pay TV

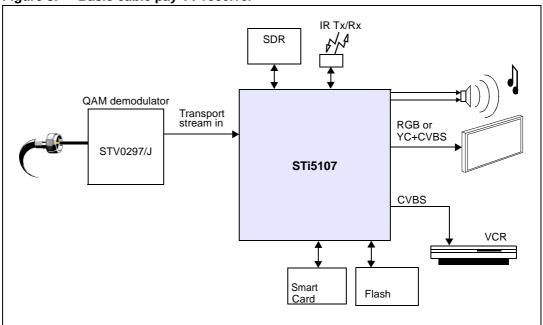
VCR

STi5107 **Description**

IR Tx/Rx SDR STV06110A RGB or YC+CVBS Transport stream in STV0288 STi5107 **CVBS** QPSK ZIF Rx VCR Smart Card Flash

Figure 2. Basic satellite pay TV receiver





Ordering information STi5107

2 Ordering information

Table 1. Ordering information

Order code	Packaging	Description
STi5107ZBB	LFBGA 15 x 15 mm	Development version, all options
STi5107ZYB	PBGA 23 x 23 mm	Development version, all options

STi5107 Revision history

3 Revision history

Table 2. Document revision history

Date	Revision	Changes	
05-Dec-2006	1	Initial release	
14-Nov-2008	2	Simplified version (page 1, 2 and 3 only from previous version) LQFP216 24 x 24 mm replaced by LFBGA 15 x 15 mm STV6000 replaced by STV6110A in <i>Figure 2</i>	

Please Read Carefully:

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED ST REPRESENTATIVE, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER'S OWN RISK.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2008 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com

577