

STEVAL-CCH002V1

HDMI and video switches evaluation board

Data Brief

Features

- 16-character x 2-line alphanumeric backlit LCD
- VGA input and output connectors
- S-video input and output connectors
- Y Pb, Pr input connector set
- Y Pb, Pr output connector set
- CVBS input and output connectors
- 2 HDMI input and output connector sets
- DVI I connector
- Reset switch
- Power supply jack (9 V, 500 mA)

Description

This evaluation board demonstrates the functionalities of the STMAV335 and STMAV340 analog video switches and the STHDMI002A and STDVE003A digital video switches, respectively.

The purpose is to demonstrate the capabilities of ST's video switches and buffers (also making an appropriate use of the signal line protection devices in all I/O Lines) for both standard analog or high speed TMDS (Transition Minimized Differential Signaling) digital signals.

Demonstration of the various devices is achieved by setting the appropriate jumpers on the evaluation board. All necessary I/O interface connectors applicable for each signal format are provided. Standard interconnects available on the market can be used with the evaluation board.

There is also a 2-line backlit LCD with16 characters-per-line, which displays the selection status as well as the control signals sensed by the preprogrammed microcontroller.

This evaluation board can be powered by the 9 V adapter provided or by a standard 9 V power supply with a current capacity of at least 500 mA. The source does not need to be regulated. On-

For further information contact your local STMicroelectronics sales office.



board regulators supply +5 V and +3.3 V as required.

April 2008

1/5

1 Evaluation board illustrations

Figure 1. Analog section



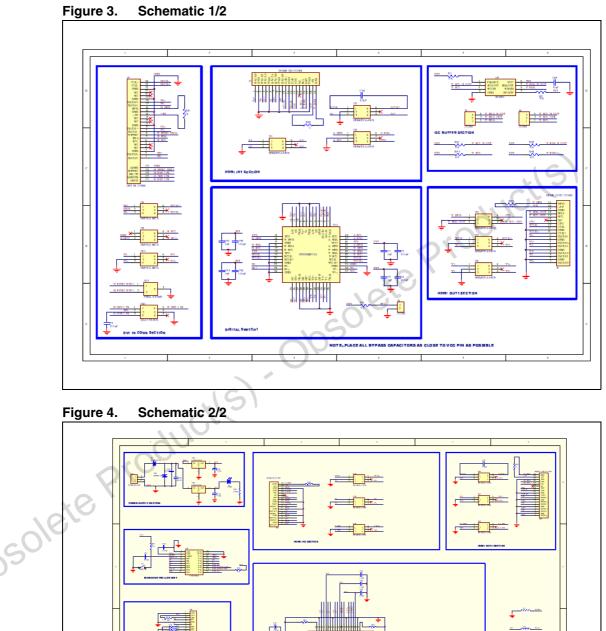
Figure 2. Digital section



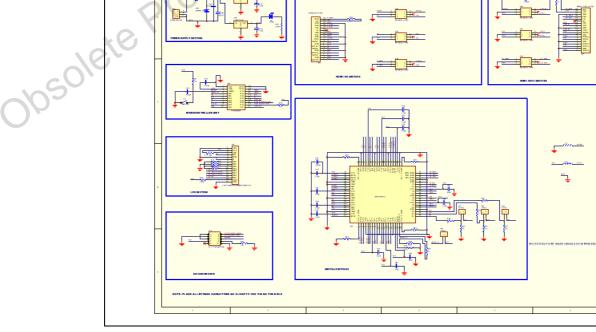


57

Evaluation board schematic 2



Schematic 1/2



3/5

3 Revision history

Table 1.Document revision history

Date	Revision	Changes
15-Apr-2008	1	Initial release.

obsolete Product(s). Obsolete Product(s)



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

