



**THE DATASHEET OF  
STV-674/100T-E01**





# STV-674/501C-R01

## Reference design for STV0674 Digital Processor and VV6501 VGA CMOS sensor

DATA BRIEFING

### Features

#### ■ Camera Mode

- Still image capture
- Movie clip capture (synchronized audio\video)
- Audio Clip capture

#### ■ WebCam Mode

- DirectShow Driver Support
- Real-time video – up to 30fps VGA
- Real-time audio
- DirectCap – sample DirectShow application

#### ■ Native Mass Storage (NMS) Mode

- Flash memory
- Behaves as removable disk drive for data storage when tethered
- ~400Kbyte/s Write ~500Kbytes/s Read.
- AVICreate – application to convert movie clips to standard AVI format

### Description

The STV-674/501C-R01 reference design is intended to represent an actual production solution for a flashdrive memory with built-in camera.

Images, audio and video clips are stored in the DOS formatted on board NAND, when the board is tethered over USB it will appear as either a disc drive in NMS mode or a USB composite device in webcam mode.

The RDK includes the following:

- Reference design board
- Schematic and BOM
- USB cable
- Application software

### Minimum Requirements

- IBM PC or compatible
- Windows 98SE, Win ME, Win2K + SP3 or WinXP + SP1 Operating System
- DirectX8.1 or later
- Graphics Adapter capable of 800x600 resolution, 64k colours (“thousands of colours”)
- CDROM drive
- PII 266 with 64M RAM (Win98/ME) or 128M RAM (Win2K/XP)
- NMS supported on Mac OSX & MacOS9

### Technical documentation

<b>Datasheet</b>
STV0674 - CMOS digital camera signal processor
<b>User manuals</b>
User manual for STV-674/501C-R01 reference kit.
Tri- mode camera reference design for STV0674 companion processor and VV6501 VGA CMOS sensor with nand flash

### Ordering Information

Sale type	Description
STV-674/100T-E01	Evaluation kit for STV0674 imaging digital signal processor
VV6501C001	CMOS image sensor with VGA resolution
STV-674/501C-R01	Reference design for STV0674 digital processor and VV6501 CMOS image sensor with VGA output resolution
STV0674T100	CMOS digital camera signal processor

Information furnished is believed to be accurate and reliable. However, STMicroelectronics assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of STMicroelectronics. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. STMicroelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of STMicroelectronics.

The ST logo is a registered trademark of STMicroelectronics

© 2003 STMicroelectronics - All Rights Reserved

Purchase of I<sup>2</sup>C Components by STMicroelectronics conveys a license under the Philips I<sup>2</sup>C Patent. Rights to use these components in an I<sup>2</sup>C system is granted provided that the system conforms to the I<sup>2</sup>C Standard Specification as defined by Philips.

STMicroelectronics GROUP OF COMPANIES

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

[www.st.com](http://www.st.com)

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View STV-674/100T-E01 on WIN SOURCE](#)
- ⊖ [STMicroelectronics Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management