

1 Introduction

The STiH207 offers current users of ST's growing family of advanced decoding ICs enhancements in performance and features, enabling operators to offer consumers new multimedia-rich services and viewing experiences, including new 3DTV features. Faster DDR3 memory is also supported, and the applications CPU benefits from an L2 cache. The STiH207 keeps pace with the latest advanced security requirements of the main CA vendors, and an integrated standby controller enables the STiH207 to target stringent low power regulations.

Features	Benefits
ST40 applications CPU, with 32KI and 32KD L1 caches and 256K L2 cache.	High performance processing up to 1200 DMIPS ⁽¹⁾ for applications and middleware.
Integrated low power standby controller within its own power island.	Secure hibernation to, and fast resume from, very low power passive standby mode, targeting STB standby power < 0.5 W.
Latest generation of ST's Delta video decoder with an ST231-based multi-codec capable controller, coupled with a High Quality Video Display Pipeline (HQVDP).	Decoding of advanced high definition standards (MPEG2, H264, VC-1, AVS) plus the performance and flexibility for web-based content decoding such as Flash [®] , DivX [™] , MJPEG and Real [®] , without impacting applications CPU performance.
Dual USB 2.0 hosts, eSATA, Ethernet MAC with MII/RMII/TMII interfaces, PCI-e, SD-MMC/SDIO interface.	Extensive high speed connectivity for the widest range of STB peripherals, such as Flash drives, external HDDs, Ethernet, home network controllers (such as MoCA [®] , Wi-Fi), DOCSIS [®] modem and memory cards.
Decoding of 1080p60 AVC, dual HD AVC and MVC SHP video streams.	Enables advanced high-definition viewing experiences including full resolution per eye 3DTV, full-HD 2D services and HD picture-in-picture support (HD-PIP).
NOCS1.0/1.1/1.2/3.0, NSK2.0 and DVB-CSA3 ready.	Fully compliant with the latest advanced security requirements of CA vendors.
<p>1. Frequency for extended mode to be confirmed after silicon characterization.</p>	

2 ECOPACK®

In order to meet environmental requirements, ST offers these devices in different grades of ECOPACK® packages, depending on their level of environmental compliance. ECOPACK® specifications, grade definitions and product status are available at: www.st.com. ECOPACK® is an ST trademark.

3 Revision history

Table 1. Document revision history

Date	Revision	Changes
24-Oct-2011	1	Initial release.
21-Aug-2013	2	<ul style="list-style-type: none">– Updated HDMI 1.4a to HDMI 1.4b.– Updated the ST40 performance to 1200 DMIPS in Features and Benefits.

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