

Vantage 8652

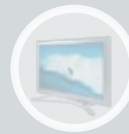
SMP8652 Development Kit



The Vantage 8652 development kit enables the rapid development of an IPTV set-top box, network player, etc. that can also support ATSC or DVB tuners.

Based on our SMP8652 Secure Media Processor™, the Vantage 8652 also supports two HDMI outputs (v1.2 and v1.3), one USB 2.0 OTG port, two Ethernet ports and one smartcard interface. An optional tuner add-on board supports an ATSC, DVB-T, DVB-C, DVB-S or DVB-S2 tuner.

Additional features such as DLNA, Z-Wave® RF remote control, and streaming of on-line movies, TV shows and videos may also be easily incorporated. Adding Z-Wave® capability also integrates support for Z-Wave® enabled home automation, home security monitoring and home energy management products. This enables telcos to offer additional premium services, such as home security monitoring, for the home.



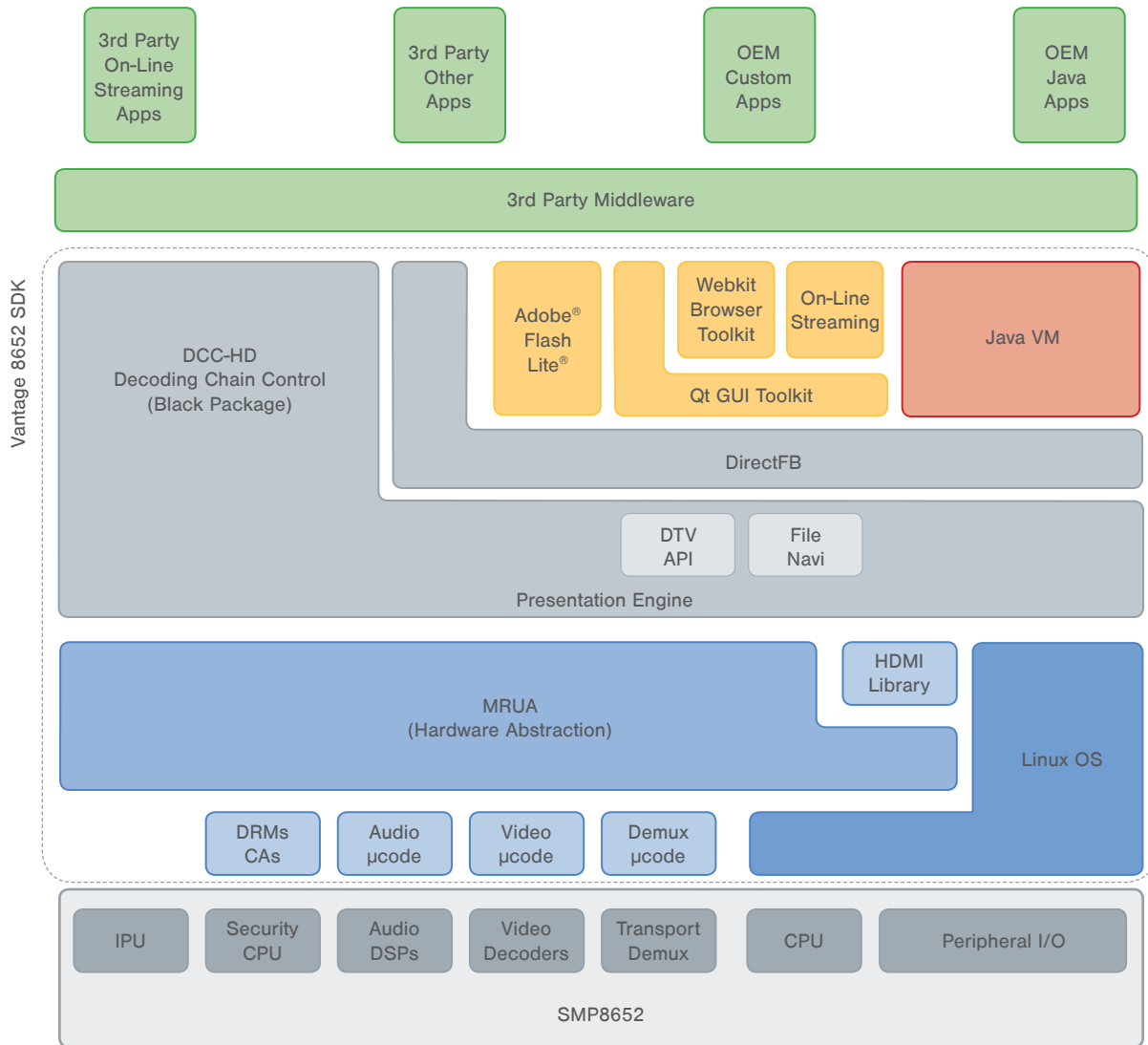
- Enables rapid development of an IPTV set-top box, network player, etc.
- Supports Linux or WinCE OS
- Video outputs include NTSC/PAL composite, YPbPr, HDMI v1.2 and HDMI v1.3
- Audio outputs include 5.1-ch analog audio, coaxial SPDIF
- USB 2.0 OTG, Ethernet and smartcard
- MII via MiniPCI connector (for optional 3rd party 802.11 or UWB card)
- Internal connector for optional SATA HDD
- Includes PC board, SDK, development tools, schematics, bill of materials, Gerber files and documentation

POWERING THE DIGITAL MEDIA GENERATION



Vantage 8652

Software Architecture

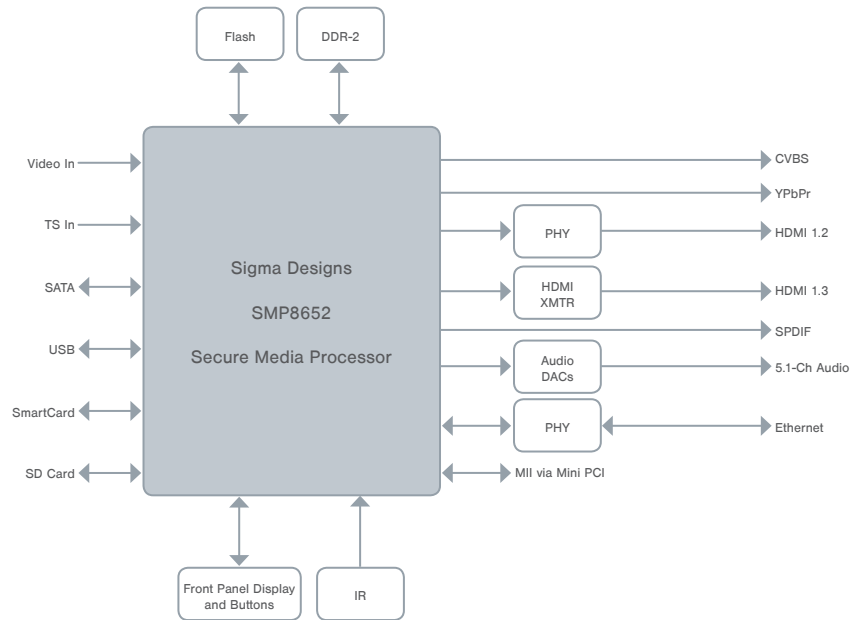


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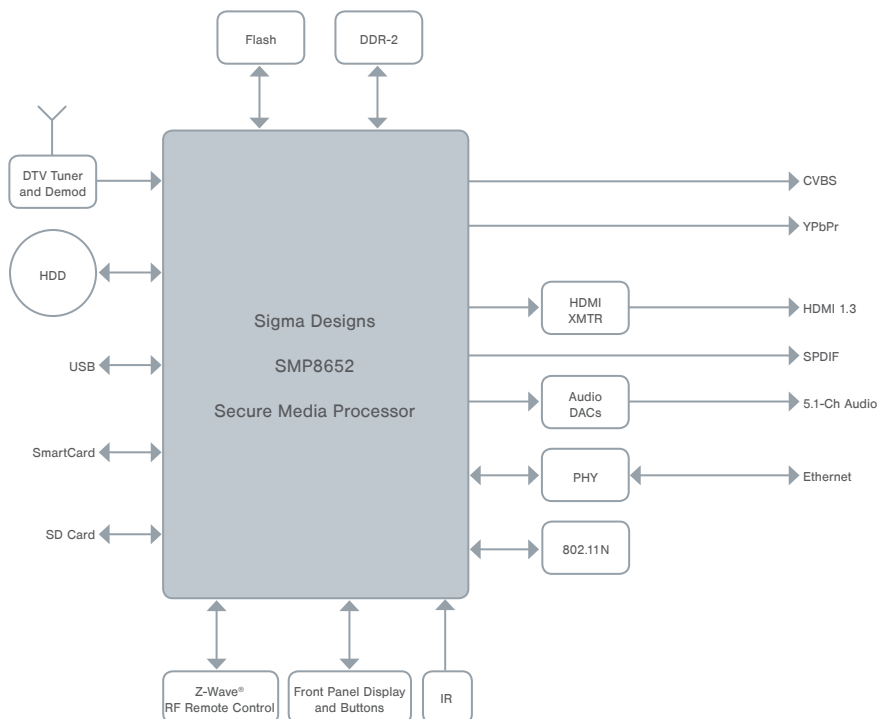
Block Diagrams



Block Diagram of Vantage 8652



Customize the Design to Differentiate Your Product



VANTAGE 8652 FEATURES AND SPECIFICATIONS

VIDEO OUTPUTS

- NTSC/PAL composite video
- Analog YPbPr video
- HDMI v1.2 with audio
- HDMI v1.3 with audio
- Macrovision copy protection on 480i, 576i, 480p and 576p analog outputs

AUDIO OUTPUTS

- 5.1-ch analog audio
- Coaxial SPDIF digital audio

MEMORY

- 2MB SPI NOR flash
- 64MB SLC NAND flash
- 256MB DDR-2 DRAM (DDR-667)

OTHER I/O

- USB 2.0 OTG
- Two 10/100 BaseT Ethernet (RJ45)
- SATA connector
- ISO 7816 smartcard
- IR
- MII via Mini PCI connector (for optional 3rd party 802.11 or UWB card)
- SD Card slot
- Connectors for optional digital tuner board
- 8-bit digital video input connector (26-pin header)

DELIVERABLES INCLUDE

- SMP8652 Dev. board
- Linux OS
 - SDK (API and documentation, includes applicable source code)
 - Requires x86 PC with Redhat Linux
- WinCE OS
 - BSP (API and documentation, includes applicable source code)
 - GDI and DirectX framework support
- Board schematics
- Bill of materials
- Gerber files
- SMP8652 datasheet
- 12V DC power adapter
- Remote control

OPTIONAL DIGITAL TUNER BOARDS

- Vantage 8652 ATSC
- Vantage 8652 DVB-T
- Vantage 8652 DVB-C
- Vantage 8652 DVB-S
- Vantage 8652 DVB-S2

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