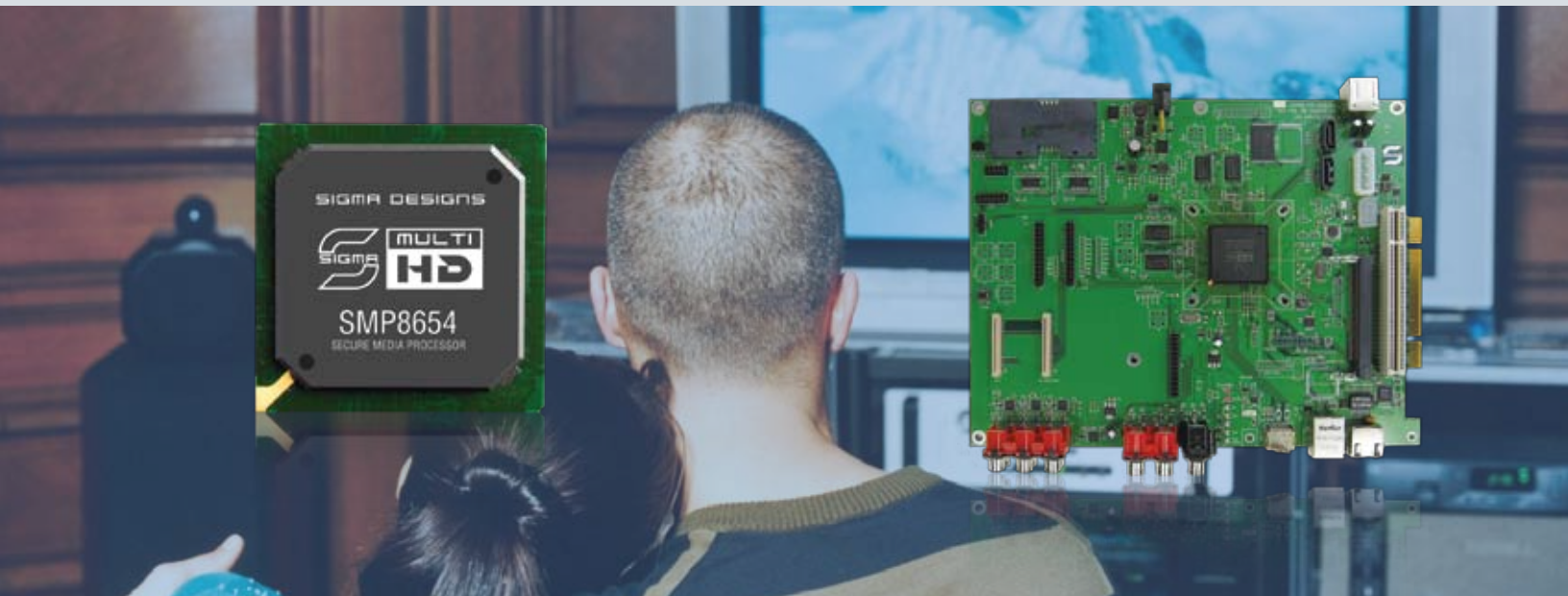


Vantage 8654

SMP8654 Development Kit

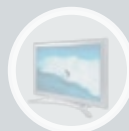


The Vantage 8654 development kit enables the rapid development of an IPTV set-top box, network player, etc. that can also support ATSC or DVB tuners.

Based on our SMP8654 Secure Media Processor™, the Vantage 8654 also supports a HDMI output, two USB 2.0 Host ports, two Ethernet ports and two smartcard interfaces. 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.

Our Professional Services Group offers design assistance to customize the final design to your specifications.



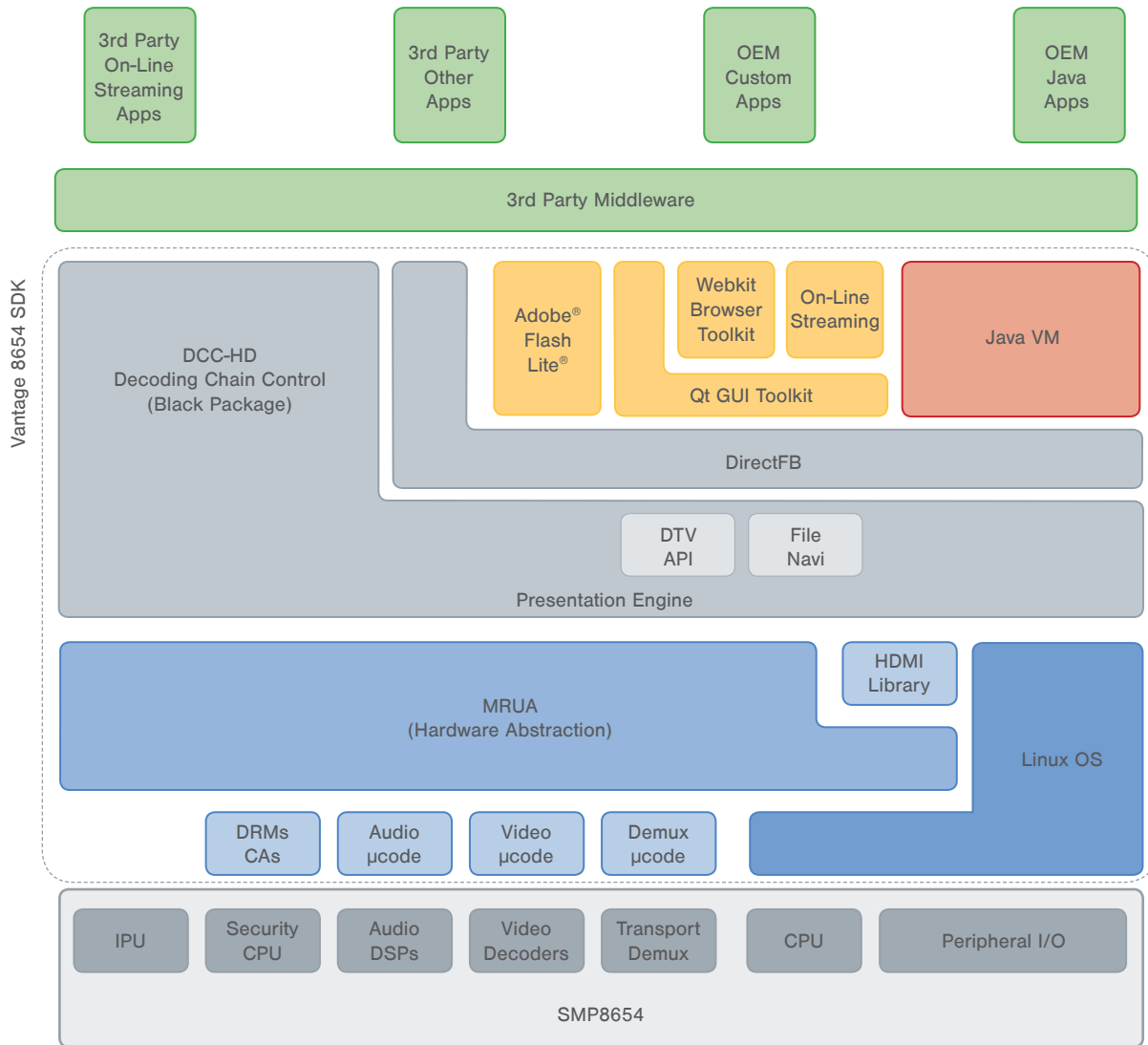
- Enables rapid development of an IPTV set-top box, network player, etc.
- Supports Linux or WinCE OS
- Video outputs include NTSC/PAL composite and S-video, YPbPr and HDMI
- Audio outputs include 5.1-ch analog audio, coaxial SPDIF
- USB, Ethernet and smartcard
- PCI and MiniPCI connectors (for optional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

POWERING THE DIGITAL MEDIA GENERATION



Vantage 8654

Software Architecture

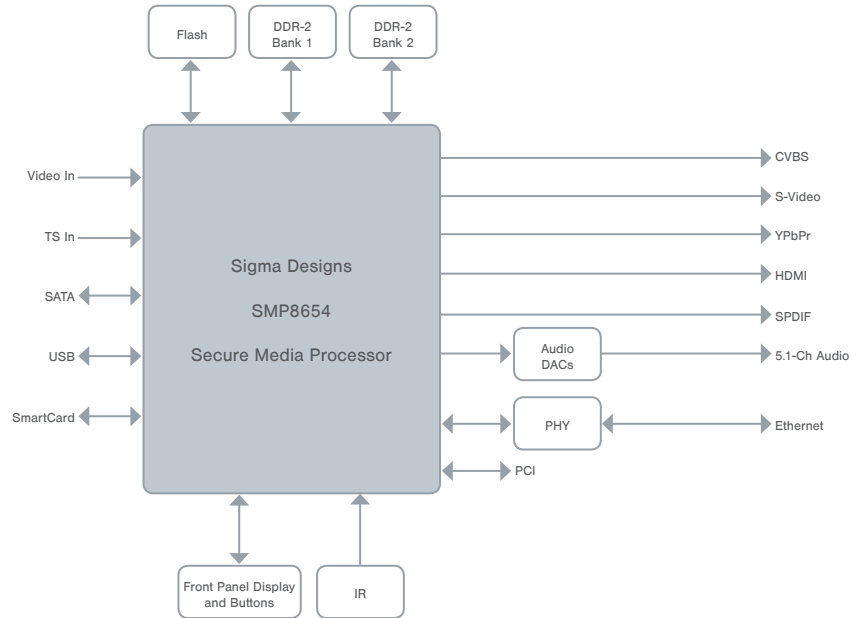


Vantage 8654

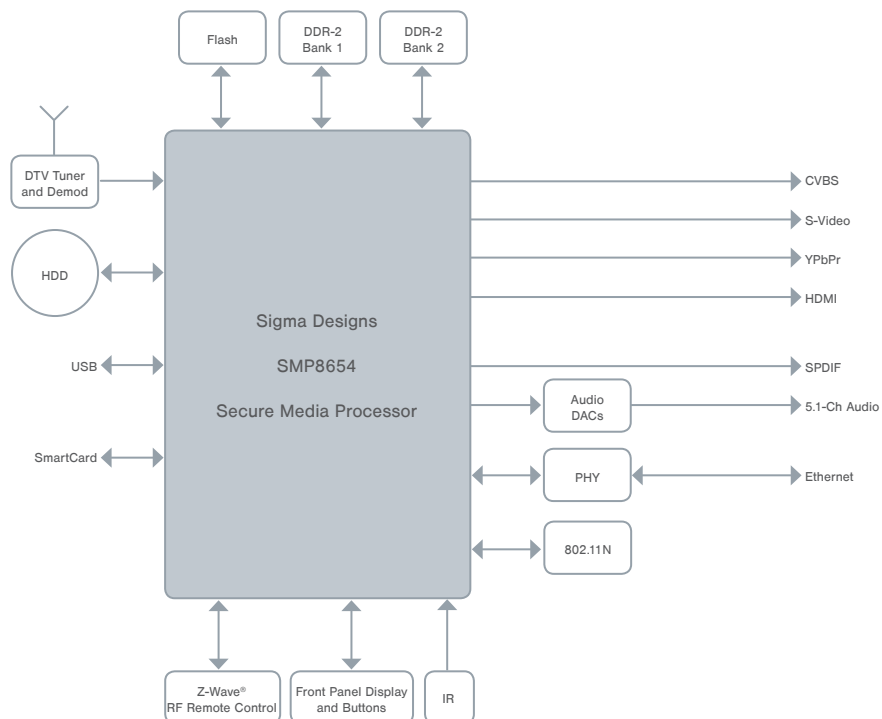
Block Diagrams



Block Diagram of Vantage 8654



Customize the Design to Differentiate Your Product



VANTAGE 8654 FEATURES AND SPECIFICATIONS

VIDEO OUTPUTS

- NTSC/PAL composite and S-video
- Analog YPbPr video
- HDMI v1.3a 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
- 512MB SLC NAND flash
- 512MB DDR-2 DRAM (DDR-667)

OTHER I/O

- Two USB 2.0 high speed (embedded host)
- Two 10/100 BaseT Ethernet (RJ45)
- Two SATA connectors
- Two ISO 7816 smartcard
- IR
- PCI and MiniPCI connectors (for optional 3rd party 802.11 or UWB card)
- Connectors for optional digital tuner board
- 8-bit digital video input connector (26-pin header)

DELIVERABLES INCLUDE

- SMP8654 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
- SMP8654 datasheet
- 12V DC power adapter
- Remote control

OPTIONAL DIGITAL TUNER BOARDS

- Vantage 8654 ATSC
- Vantage 8654 DVB-T
- Vantage 8654 DVB-C
- Vantage 8654 DVB-S
- Vantage 8654 DVB-S2

SALES OFFICES

U.S.A (HEADQUARTERS)

1778 McCarthy Blvd.
Milpitas, CA 95035
Tel: (408) 262-9003
Fax: (408) 957-9740
www.sigmadesigns.com
sales@sdesigns.com

CHINA

Sigma Designs China Office
Unit 7C1, TianXiang Bldg.
Tian'An Cyber Zone,
Futian District,
Shenzhen, PRC
Postcode 518048
Tel: +86 755-83435669
Fax: +86 755-83435629

HONG KONG, INDONESIA, MALAYSIA

Sigma Designs (Asia) Ltd.
Unit 4001B, Tower 2,
Metroplaza
223 Hing Fong Road
Kwai Fong, N.T. Hong Kong
Tel: +852 2401-7388
Fax: +852 2610-2177

TAIWAN

Sigma Designs Taiwan
Far East World Center,
C Tower
8F-8, No. 79, Sec 1
Hsin Tai Wu Road
Hsichih, Taipei Hsien, Taiwan
Tel: +886 2-2698-2066
Fax: +886 2-2698-2099

JAPAN

Sigma Designs Japan
4-16-8 Nakahara,
Mitaka-shi,
Tokyo 181-0005, Japan
Tel: +81 422-79-3067
Fax: +81 422-79-3067

EUROPE, MIDDLE EAST, AFRICA, AUSTRALIA, SINGAPORE

Sigma Designs, Inc.
Tel: +32 474-501234
Fax: +32 234-72260

DISTRIBUTORS

INDIA

Spectra Innovations
#30, Unit 30/4,
St. John's Road
Bengaluru-560042, India
Tel: +91 80-2558-8323
Fax: +91 80-2558-1427
www.spectraind.com

INDONESIA, MALAYSIA, SINGAPORE

Convergent Systems (S) Pte. Ltd.
60 Albert Street
#11-01 Albert Complex
Singapore 189969
Tel: +65 6337-0177
Fax: +65 6336-2247
www.convergent.com.sg

JAPAN

MACNICA, Inc.
Brilliant Technologies Company
Macnica Bldg. No 1
1-6-3 Shin-Yokohama
Kouhoku-ku, Yokohama,
222-8561 Japan
Tel: +81 45-470-9831
Fax: +81 45-470-9832
www.btc.macnica.co.jp

KOREA

Uniquet Corp.
Uniquet Building
271-2 Seohyeon-dong,
Bundang-gu, Sungnam-si,
Gyeonggi-do, Korea, 463-824
Tel: +82 31-708-9988
Fax: +82 31-708-6598
www.uniquet.co.kr

TAIWAN

Tradwell Company Ltd.
Far East World Center,
C Tower
8F-8, No. 79, Sec 1
Hsin Tai Wu Road
Hsichih, Taipei Hsien, Taiwan
Tel: +886 2-2698-2066
Fax: +886 2-2698-2099

