

# IPTV-8654

SMP8654 IPTV Set-top Box Development Kit

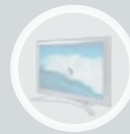


The IPTV-8654 development kit enables the rapid development of an IPTV set-top box or thin client.

Based on our SMP8654 Secure Media Processor™, the IPTV-8654 also supports a HDMI output, two USB 2.0 Host ports, and an Ethernet port.

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.



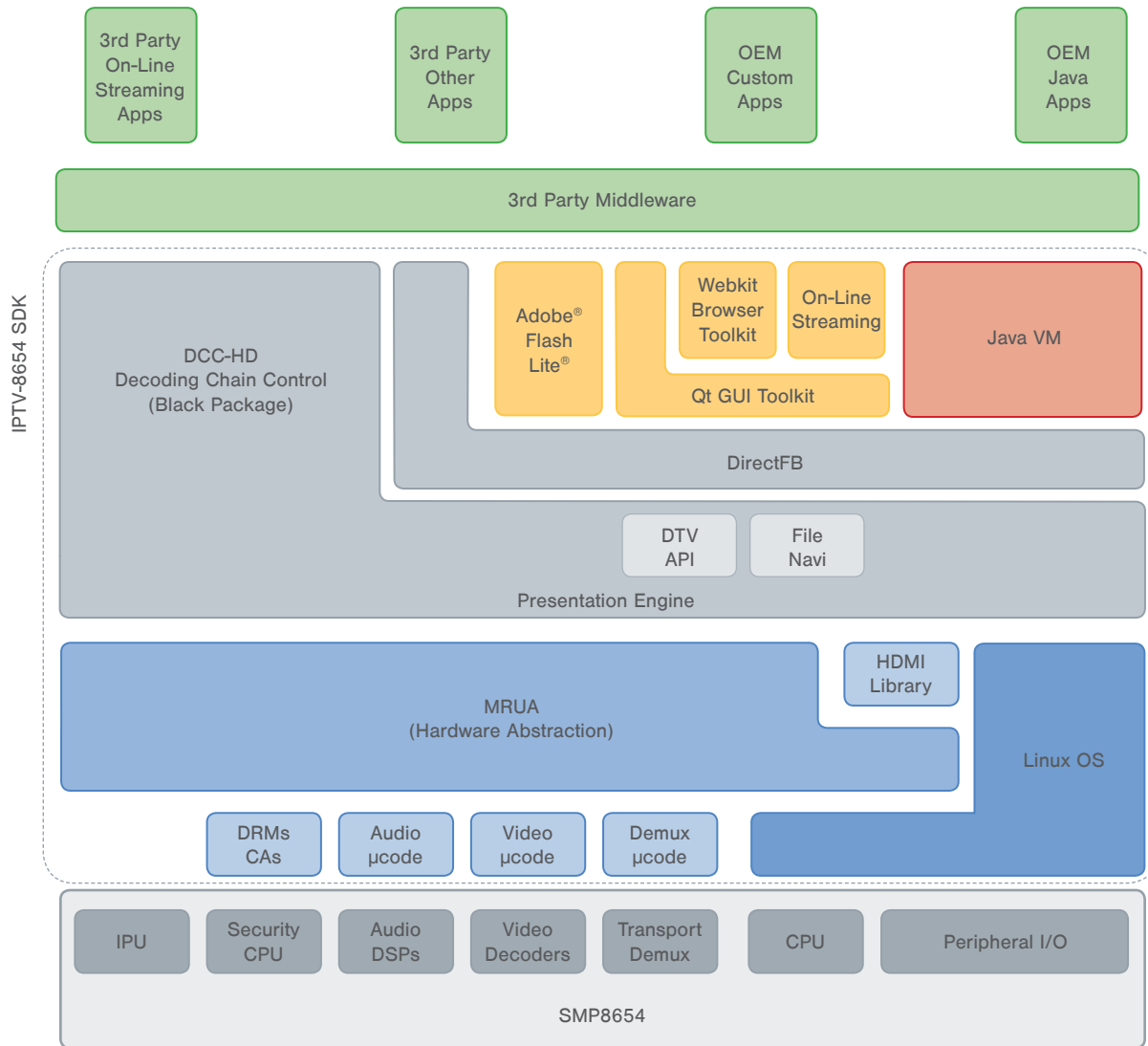
- Enables rapid development of an IPTV set-top box or thin client
- Supports Linux or WinCE OS
- Video outputs include NTSC/PAL composite and S-video, YPbPr and HDMI
- Audio outputs include 2.0-ch analog audio, SPDIF
- USB, Ethernet, e-SATA
- Internal connector for optional SATA HDD
- Includes PC board, SDK, development tools, schematics, bill of materials, Gerber files and documentation

POWERING THE DIGITAL MEDIA GENERATION



# IPTV-8654

## Software Architecture

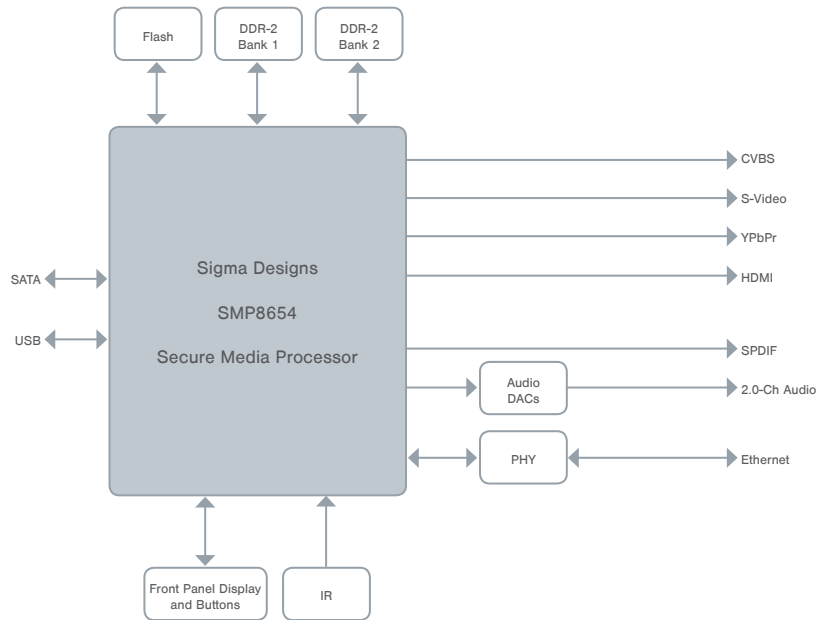


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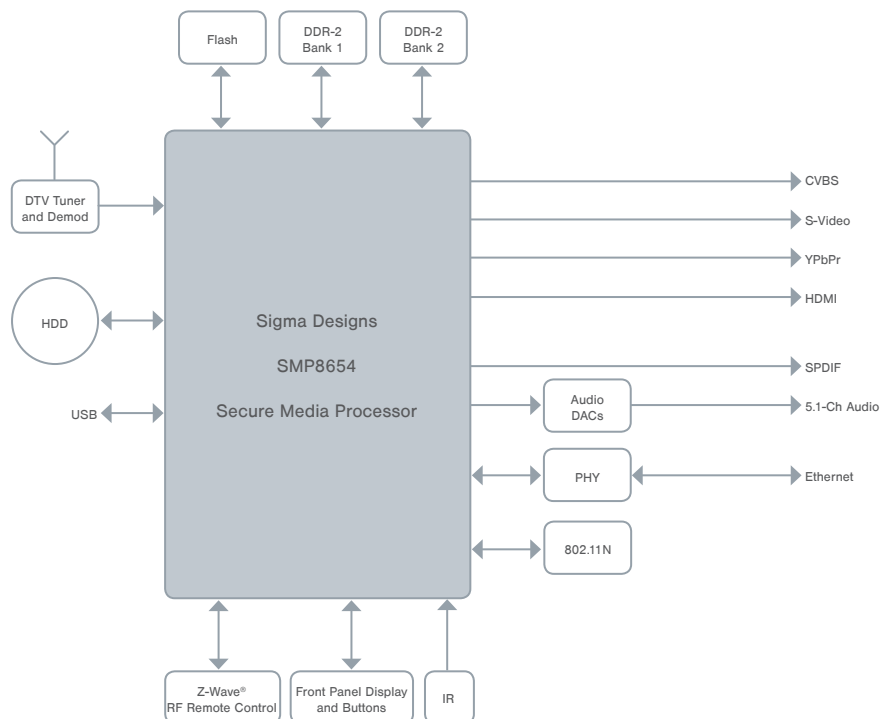
## IPTV Set-top Box Block Diagrams



Block Diagram of IPTV-8654



Customize the Design to Differentiate Your IPTV Set-top Box



## IPTV-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

- 2.0-ch analog audio
- 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)
- 10/100 BaseT Ethernet (RJ45)
- e-SATA connector
- Internal SATA connector for optional HDD
- MII via optional user-installed Mini PCI connector (for optional 3rd party 802.11 or UWB card)
- IR

### DELIVERABLES INCLUDE

- SMP8654 Pocket STB 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

## SALES OFFICES

### U.S.A (HEADQUARTERS)

1778 McCarthy Blvd.  
Milpitas, CA 95035  
Tel: (408) 262-9003  
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\* Breakout cable adapter required

## DISTRIBUTORS

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