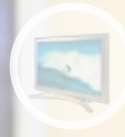


SMP8650 Series

Secure Media Processors



TARGET MARKETS

- IPTV
- Cable
- Network players (DMAs)
- Thin clients for IPTV/cable gateways

SUPPORTED TECHNOLOGIES

- ATSC, DVB, ARIB and IPTV
- Audio DSP supports wide variety of audio codecs
- Security CPU supports wide variety of conditional access (CA) and digital rights management (DRM) solutions

VIDEO DECODING

- MPEG-4.10 (H.264) BP@L3, MP@L4.0 and HP@L4.0
- SMPTE 421M (VC-1) MP@HL and AP@L3
- WMV9 MP@HL
- MPEG-2 MP@HL
- MPEG-4.2 ASP@L5 (up to HD, 1-point GMC)
- AVS Jizhun profile@L2.0, 4.0 and 6.0

ADVANCED VIDEO PROCESSING

- 32-bit OSD
- 2D graphics accelerator with scaling
- JPEG and OpenType acceleration
- Motion adaptive deinterlacing
- Adaptive flicker filtering
- Deblocking and deringing filters
- Programmable up/downscaling
- Simultaneous HD, CIT-HD and SD outputs
- Individual brightness, contrast, saturation, hue and colorimetry correction controls for each video source and output port
- Color temperature and gamma controls
- 12-bit xvYCC processing
- Integrated HDMI v1.3a with CEC, 12-bit deep color and xvYCC

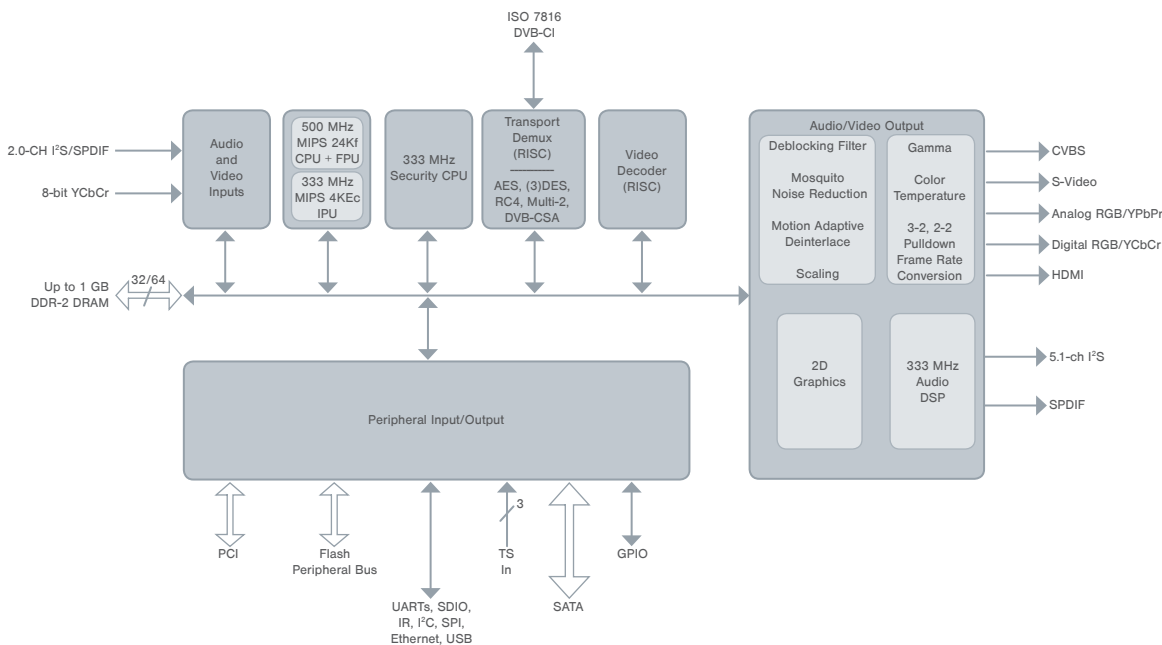
The SMP8650 family provides highly-integrated solutions for products requiring MPEG-4.10 (H.264), SMPTE 421M (VC-1), AVS, WMV9, MPEG-4.2 and MPEG-2 decoding. The Secure Media Processor architecture offers advanced content protection, supporting a wide variety of Digital Rights Management (DRM) and Conditional Access (CA) solutions.

To meet the new low-power requirements for CE products, the SMP8650 family features several standby features, including wake-on-IR, wake-on-LAN and sleep/standby with DRAM data preserved.

Incorporating flexible, advanced audio/video processing, the SMP8650 family enables cost-effective solutions for "triple play" IPTV set-top boxes, gateways and thin clients, digital cable set-top boxes, gateways and thin clients, and network players.

POWERING THE DIGITAL MEDIA GENERATION





	SMP8652	SMP8654
DMIPS / CaffeineMark™ 3.0	1230* / tbd	1230* / 3517
Video Decoding	1 HD	1.25x HD
Ethernet	(2) 10/100	(2) 10/100
HDMI	v1.2	v1.3a + CEC + PHY
SATA with Integrated PHY (1.5 Gbps, eSATA compatible)	1	2
USB 2.0 with Integrated PHY	1 Host/Device	2 Host
SDIO	2	
Peripheral Bus, DVB-CI Support	•	
DDR-2 DRAM Support (DDR667)	32-bit 512 MB	64-bit 1 GB
NAND Flash Support	8-bit 4 GB	8-bit 4 GB
NOR Flash Support	16-bit 256 MB	
SPI NOR Flash Support	•	
Digital RGB/YCbCr Video Outputs	•	
Video DACs	4	6
PCI		•
Non-Macrovision Version	SMP8653	SMP8655

* Host CPU + IPU (720 + 510)

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