

# SMP8630 Series

Secure Media Processors



SET-TOP  
BOXES

CONSUMER  
ELECTRONICS

AV  
NETWORKS

HOME  
CONTROL

COMMERCIAL  
SYSTEMS



## TARGET MARKETS

- IPTV
- Blu-ray players
- Network players

## SUPPORTED TECHNOLOGIES

- ATSC, DVB, ARIB and IPTV
- Blu-ray, AVCHD, HDV, DVD-Video, DVD-R/-RW/+R/+RW, CD/-R/-RW, Picture CD (JPEG) media formats
- 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 (720p, 1-point GMC)

\* L4.1 for Blu-ray applications

## ADVANCED VIDEO PROCESSING

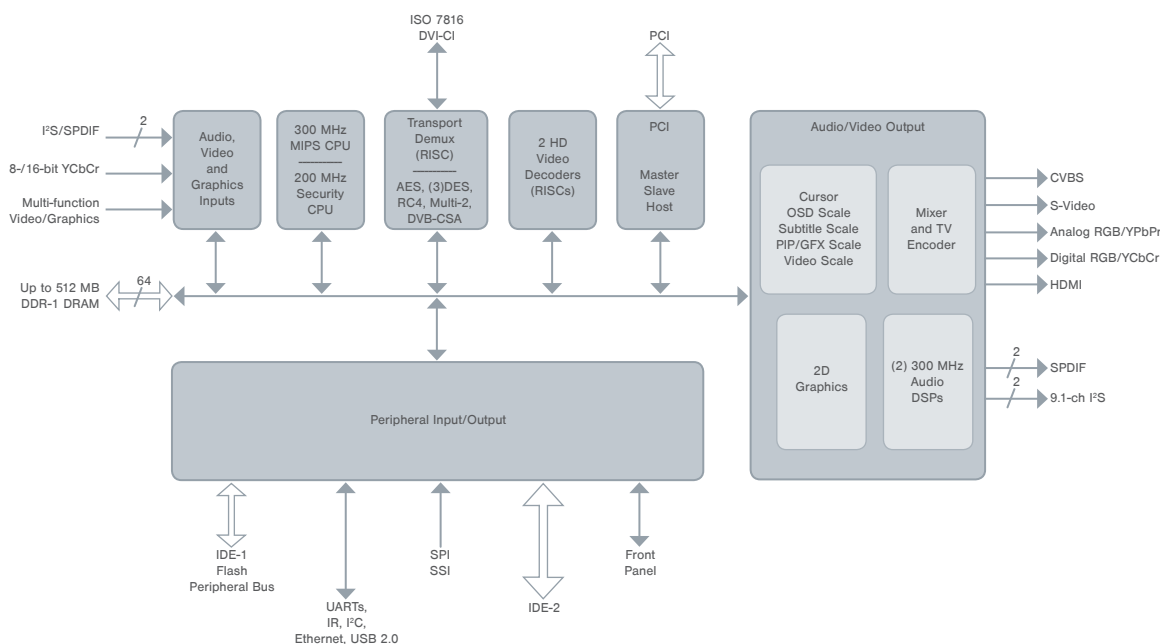
- 32-bit OSD
- 2D graphics accelerator with scaling
- JPEG and OpenType acceleration
- Motion adaptive deinterlacing
- Adaptive flicker filtering
- Programmable up/downscaling
- Simultaneous HD and SD outputs
- Individual brightness, contrast, saturation, hue and colorimetry correction controls for each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

The SMP8630 family provides highly-integrated solutions for products requiring high-definition MPEG-4.10 (H.264), SMPTE 421M (VC-1), 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.

Incorporating flexible, advanced audio/video processing, the SMP8630 family enables cost-effective solutions for consumer products such as network players, IPTV set-top boxes, and Blu-ray players.

POWERING THE NEW DIGITAL HOME





	<b>SMP8634</b>
DMIPS / CaffeineMark™ 3.0	460 / 2223
Dual HD Decoder, Dual Audio DSP	•
Video Input Port with VBI Capture	2
Graphics Input Port, 10/100 Ethernet, USB 2.0 Embedded Host	•
HDMI	v1.2
ISO 7816	•
Secure CPU for DRM and CA Software	•
Secure Architecture	•
OpenType Font Rendering Acceleration	•
JPEG Decoding Acceleration	•
DDR-1 DRAM Support (DDR400)	64-bit 512 MB
NOR Flash Support	16-bit 256 MB
Audio Inputs	(2) 2.0 I <sup>2</sup> S + SPDIF
Audio Outputs	(2) 9.1 I <sup>2</sup> S + SPDIF
PCI Peripherals	4
Non-Macrovision Version	<b>SMP8635</b>

**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, KK  
4-16-8 Nakahara,  
Mitaka-shi,  
Tokyo 181-0005, Japan  
Tel: +81 45-470-5877  
Fax: +81 45-470-5876

**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

