Digital Video Decoders

Your Digital Gateway to the Analog World
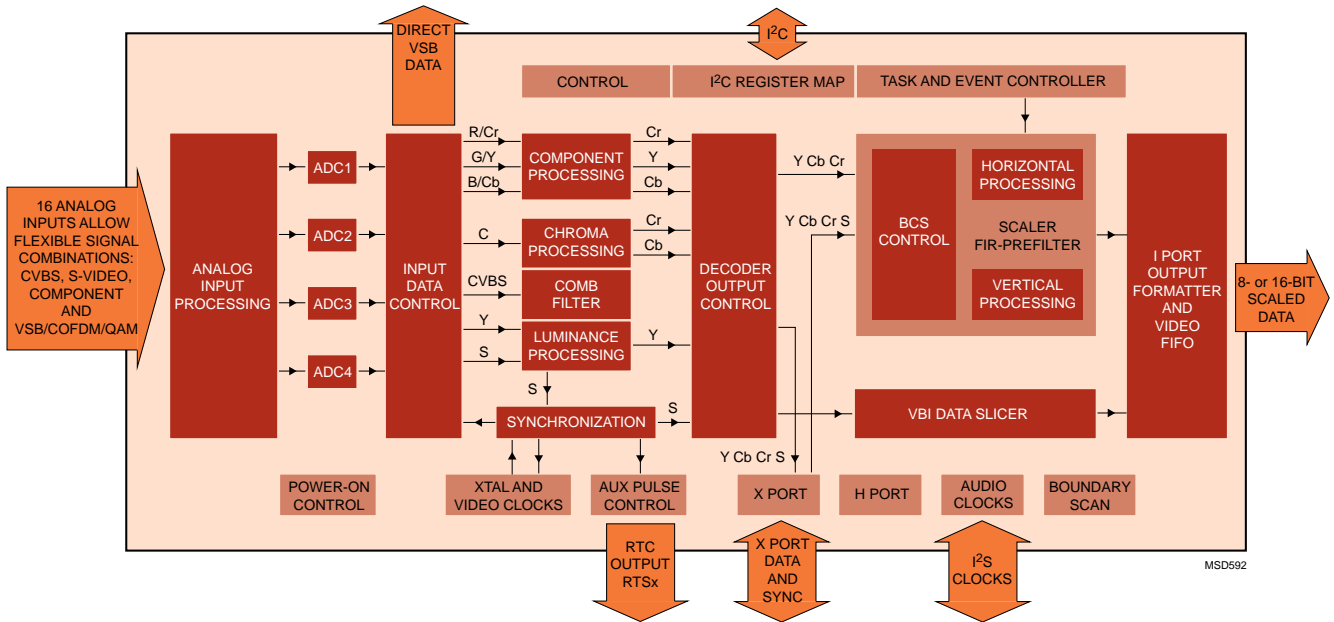
Semiconductors

DEVICE	SAA7110A	SAA7111A	SAA7112	SAA7114	Recommended for New Designs SAA7113	SAA7115	SAA7118
Clock:							
Sample Rate	Square Pixel	ITU-601	ITU-601	ITU-601	ITU-601	2x ITU-601	2x ITU-601
Line-Locked Clock	•	•	•	•	•	•	•
MPEG Compatible Clock		•	•	•	•	•	•
Real-Time Control (RTC)	•	•	•	•	•	•	•
Audio Clock			Field Locked	Field Locked		Frame, Field Locked	Field Locked
Input:							
Analog Inputs	6	4	6	6	4	6	16
Analog-to-Digital Converters (ADCs)	2	2	2	2	2	2 Low Noise	4 Low Noise
ADC Resolution	8-bit	8-bit	8-bit	9-bit	9-bit	9-bit, Over-Sampled	9-bit, Over-Sampled
Analog RGB/YPbPr Component Video Input							•
Video Standards:							
NTSC/PAL/SECAM	•	•	•	•	•	•	•
Standard Detection	•	•	•	•	•	Fully Automatic	Fully Automatic
Feature Processing:							
Adaptive 2/4-Line NTSC/PAL Comb Filter				•		Enhanced	•
Universal VBI Data Slicer		CC only	•	•	•	Including CGMS, Gemstar	•
I²C VBI Read Back		•				•	
Square Pixel Output Rate	•					Optional	
Fast Field Lock			•	•		Ultra	•
Automatic VCR Detection						•	
Scaler:							
Pixel Accurate H/V Scaler			•	•		•	•
Output:							
Color Format	YUV	YUV, 16/24-bit RGB	YUV	YUV	YUV	YUV Including 10-bit	YUV
Output Port	16-bit	8-bit	8-bit	8-bit	8-bit	8-bit	8-bit
	24-bit	16-bit	16-bit	16-bit		16-bit	16-bit
Expansion X-Port			•	•		•	•
General:							
Supply Voltage	5 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V
I²C Status Interrupt Pin							•
Macrovision Detection				•	•	Enhanced	Enhanced
Package	PLCC68	QFP64, LQFP64	LQFP100	LQFP100	QFP44	LQFP100	BGA156, QFP160
Pin-to-Pin Compatible						SAA7114	
Availability:							
Extended Temp Version					SAF7113		SAF7118
Status	Production	Production	Production	Production	Production	Production	Production

PHILIPS

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SAA7118 Video Decoder

Philips Semiconductors

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