



1Q 2011 Product Selector Guide

Port Processors

Target Applications: HDTVs

Features	SiI9387A	SiI9381A	SiI9287B
HDMI Input	5	4	4
MHL Input	1	1	
HDMI Output	1	1	1
InstaPort	InstaPort™ S	InstaPort™ S	InstaPort™
3D Support	•	•	•
Audio Return Channel	•	•	
HDMI Ethernet Channel	•		
Max HDMI Resolution	1080p/60Hz, 36 bit (12 bit/color)	1080p/60Hz, 36 bit (12 bit/color)	1080p/60Hz, 36 bit (12 bit/color)
Max MHL Resolution	1080p/30Hz, 24 bit (8 bit/color)	1080p/30Hz, 24 bit (8 bit/color)	
x.v.Color Support	•	•	•
HDCP Decryption, HDCP BIST and Pre-programmed HDCP Keys	•	•	•
CEC Processor	•	•	•
Advanced Sleep Modes	•	•	•
Integrated NVRAM EDID for HDMI and VGA Port	•	•	•
Package Size	100-pin QFP	88-pin QFN	72-pin QFN
Starter Kit	CP9387HDMI	CP9381A	CP9287HDMI

HDMI Receivers

Target Applications: HDTVs

Features	SiI9223A	SiI9127
HDMI Input	4	2
Display Interface	36-bit	36 bit
Max HDMI Resolution	1080p/60Hz, 36 bit (12 bit/color)	1080p/60Hz, 36 bit (12 bit/color)
RGB, YCbCr Color Space Conversion	•	•
x.v.Color Support	•	•
HDCP Decryption, HDCP BIST and Pre-programmed HDCP Keys	•	•
CEC Processor	•	•
Integrated NVRAM EDID	4	2
Advanced Sleep Modes	•	•
2x I ² S and S/PDIF Output	•	•
Slave I ² C Interface	•	•
Auto Video/Audio Mode Detection	•	•
Package Size	144-pin TQFP	128-pin TQFP
Starter Kit	CP9223HDMI	CP9127HDMI

iTMDS Transmitters

Target Applications: HDTVs

Features	SiI7172
Input (Single Pixel)	Up to 48-bit
Input (Dual Pixel)	Up to 72-bit
Video Resolution	VGA-UXGA, VGA-QUXGA (Dual)
Deep Color (iTMDS)	Up to 48 bit (16 bit/color)
HDCP Encryption and Pre-programmed HDCP Keys	•
Spread Spectrum Clocking	•
Advanced Sleep Modes	•
24-bit True Color Support in All Modes	•
Package Size	128-pin LQFP
Starter Kit	CP7181-7172, CP7189-7172

iTMDS Receivers

Target Applications: HDTVs

Features	SiI7189	SiI7181	SiI7171	SiI7169
Display Interface	48-bit (1 pixel) 72-bit (2 pixels)	48-bit (1 pixel) 72-bit (2 pixels)	48-bit (1 pixel) 72-bit (2 pixels)	24-bit (1 pixel) 48-bit (2 pixels)
Video Resolution	VGA-UXGA, VGA-QUXGA (Dual)	VGA-UXGA, VGA-QUXGA (Dual)	VGA-UXGA (Single link)	VGA-UXGA (Single link)
Deep Color (iTMDS)	Up to 48 bit (16 bit/color)	Up to 48 bit (16 bit/color)	Up to 48 bit (16 bit/color)	Up to 48 bit (16 bit/color)
HDCP Decryption and Pre-programmed HDCP Keys	•			•
Advanced Sleep Modes	•	•	•	•
24-bit True Color Support in All Modes	•	•	•	•
Package Size	208-pin QFP	208-pin QFP	128-pin LQFP	100-pin TQFP
Starter Kit	CP7189-7172	CP7181-7172	CP7171-7170, CP7171LCD	CP7169-7160

Input Processors

Target Applications: AVR, HTiB

Features	SiI9261
HDMI Input	4
Analog Video Input	4x 12-bit ADC @ 170MSPS
Display Interface	36-bit
InstaPort	InstaPort™
Max HDMI Resolution	1080p/60Hz, 36 bit (12 bit/color)
RGB, YCbCr Color Space Conversion	•
x.v.Color Support	•
HDCP Decryption, HDCP BIST and Pre-programmed HDCP Keys	•
CEC Support	•
Hot Plug Support	•
Advanced Sleep Modes	•
Integrated NVRAM EDID for HDMI and VGA Port	4
Repeater Support	•
S/PDIF Compressed Audio	•
Dolby® True HD, DTS-HD, SACD and DVD-audio	•
8-ch I²S Interface @ 192 kHz	•
Master I²C Interface	•
Package Size	208-pin LQFP
Starter Kit	CP9261HDMI/ADC

HDMI Receivers

Target Applications: AVR, HTiB

Features	SiI9233A	SiI9135A
HDMI Inputs	4	2
RGB Output, YCbCr Output	•	•
Display Interface	36-bit	36-bit
Max HDMI Resolution	1080p/60Hz, 36 bit (12 bit/color)	1080p/60Hz, 36 bit (12 bit/color)
3D Support	•	•
RGB, YCbCr Color Space Conversion	•	•
HDCP Decryption, HDCP BIST and Pre-programmed HDCP Keys	•	•
Integrated NVRAM EDID	4	External
Advanced Sleep Modes	•	•
Dolby® TrueHD, DTS-HD, SACD and DVD-audio	•	•
4x I²S and SACD DSD Outputs	•	•
DVD-Audio	2/6/8 ch, 32-192kHz	2/6/8 ch, 32-192kHz
Dolby Digital, DTS digital audio	32-96kHz	32-96kHz
Slave I²C Interface	•	•
Auto Video/Audio Mode Detection	•	•
Package Size	144-pin TQFP	144-pin TQFP
Starter Kit	CP9233HDMI	CP9135A

HDMI Transmitters

Target Applications: Blu-ray Disc™, AVR, STB, HTiB

Features	SiI9334	SiI9136
RGB Input, YCbCr Input	Up to 48-bit	Up to 48-bit
HDMI Output	1	1
Video Resolution	1080p/30Hz, 48 bit (16 bit/color)	1080p/30Hz, 48 bit (16 bit/color)
3D Support	•	•
Audio Return Channel	•	•
HDMI Ethernet Channel	•	•
HDCP Encryption, HDCP BIST and Pre-programmed HDCP Keys	•	•
Advanced Sleep Modes	•	•
S/PDIF Compressed Audio	•	•
Dolby® TrueHD, DTS-HD, SACD and DVD-audio	•	•
8-ch I²S Interface @ 192 kHz	•	•
Master I²C Interface	•	•
DE Generator	•	•
Package Size	100-pin TQFP	100-pin TQFP
Starter Kit	CP9334HDMI	CP9334HDMI

Video Processors

Target Applications: Blu-ray Disc™, AVR, STB, HTiB

Features	ABT2015	ABT1030	ABT1015
Input Formats	30-bit RGB/YCbCr	36-bit RGB/YCbCr	36-bit RGB/YCbCr
Output Formats	36-bit RGB/YCbCr	36-bit RGB/YCbCr	36-bit RGB/YCbCr
480i to 1080p Inputs and Outputs	•	•	•
Pass-through (Including 3D)	•	•	•
Precision Video Scaling™	•	•	•
Precision Deinterlacing™	SD/HD	SD	
Progressive Re-Processing (PReP™)	•	•	
Mosquito Noise Reduction	•		
Detail/Edge Enhancement	•		
Deep Color	•	•	•
x.v.Color Support	•	•	•
Standard Picture Controls	•	•	•
Frame Rate Conversion	•		
On Screen Display	•		
A/V Lipsync	8-ch I ² S @ 192 kHz		
Host Interface	I ² C/ABT Serial	I ² C	I ² C
External Memory	2 DDR2s	1 SDRAM	
Package Size	316-BGA	176-LQFP	128-LQFP
Starter Kit	CP2015	CP1030	CP1015

MHL/HDMI-to-HDMI Bridge

Target Applications: PC motherboards, desktops, notebooks, netbooks, and add-in cards (ADD2)

Features	SiI1292
MHL Input	1
HDMI Output	1
HDCP	•
Video Resolution	HDMI mode: Up to 1080p/60 Hz MHL mode: Up to 1080p/30 Hz
Package Size	40-pin QFN
Starter Kit	CP1292

HDMI/DVI Transmitters

Target Applications: PC motherboards, desktops, notebooks, netbooks, and add-in cards (ADD2)

Features	SiI1392	SiI1364A	SiI1362A	SiI1162	SiI164
HDMI Output	1				
Output Port	HDMI, DVI	1 DVI Port	1 DVI Port	1 DVI Port	1 DVI Port
HDCP	•				
Graphics Controller Interface	SVDO	SVDO	SVDO	12bit (3.3V/1.2V)	12bit-24bit (3.3V/1.2V)
Cable Support	>10 meters	>10 meters	>10 meters		
Microcontroller NOT Required	•	•	•	•	•
HDMI HD Audio / SPDIF	Auto Sense 3.3V-5V				
Video Resolution	Up to UXGA, 1080p/60 Hz	Up to UXGA	Up to UXGA	Up to UXGA	Up to UXGA
Package Size	64-pin QFN	64-pin TQFP/QFN	48-pin LQFP	48-pin TSSOP	64-pin TQFP
Starter Kit	CP1392ADD2	CP1364A	CP1364A	CP1162ADD	N/A

DVI Receivers

Target Applications: LCD monitors/panels, projectors and plasma displays

Features	SiI1161
DVI Input	3.3V
Cable Support	>10 meters
Automatic Power Down	•
Graphics Controller Interface	24bit or 48bit
Video Resolution	Up to UXGA, 1080p/60 Hz
Package Size	100-pin TQFP
Starter Kit	CP1161DVI

Storage Processors

Target Applications: PC motherboards, desktops, notebooks, external enclosures, DAS or NAS boxes, DVRs, and CE equipment

Features	SiI5923	SiI5744	SiI5734	SiI5723	SiI4726
3Gb/s Host and Device Ports	1 host, 2 device	1 host, 2 device	1 host, 2 device	1 host, 2 device	1 host, 5 device
Hardware RAID Modes	0, 1, JBOD	0, 1, JBOD	JBOD	0, 1, JBOD	0, 1, 10, JBOD
BIG or Concatenation Mode		•	•	•	•
USB 2.0 Host Interface		•	•		
SAFE33 and SAFE50 Modes		•			
Multi-RAID Modes		•	•	•	•
GUI Mgmt Applet	•	•	•	•	•
eSATA Support or "Gen2m"	•	•	•	•	•
Status Hardware LED Support	•	•	•	•	•
Hot Plug Support	•	•	•	•	•
Cable Support Up to 2 Meters	•	•	•	•	•
Package Size	40-pin QFN	88-pin QFN	88-pin QFN	88-pin QFN	364-ball HSBGA
Starter Kit	CP5923	PB574402-000	PB573402-000	PB572302-000	PB4726LPSATA300

Host Controllers

Target Applications: PC motherboards, desktop, notebook, server, DVR, video surveillance, CE equipment, HBAs

Features	SiI3531A	SiI3132	SiI3124A	SiI3114	SiI3512E
Device Ports	1	2	4	4	2
SATA Device	3.0Gb/s or Gen2m	3.0Gb/s or Gen2m	3.0Gb/s or Gen2m	1.5Gb/s or Gen1i	1.5Gb/s or Gen1i
Host PCI Bus	x1 PCIe 1.0 / 2.5G	x1 PCIe 1.0 / 2.5G	PCI/X 64bit 33/66MHz	PCI 32bit 33/66MHz	PCI 32bit 33/66MHz
Software RAID Driver	(w/PM 0,1,10, 5)	0, 1 (w/PM 10, 5)	0, 1, 10, 5	0, 1, 10, 5	0, 1
FIS Based Switching	•	•	•		
NCQ	•	•	•		
Vista, Windows 7, 2003, XP, 2K, NT, ME, 98 Support	•	•	•	•	•
MAC OS X		•	•		
Linux Support	•	•	•	•	•
Package Size	48-pin QFN	88-pin QFN	364-ball HSBGA	176-pin TQFP	128-pin TQFP
Starter Kit	PB3531-1ESATA300	PB3132SATA300	PB3124SATA300	PB3114SATA150	PB3512SATA150

Port Multipliers

Target Applications: Server motherboards, PC motherboards, CE motherboards, DVR motherboards, External Enclosures

Features	SiI3726	SiI3723
Host Ports	1 SATA 3Gb/s	1 SATA 3Gb/s
Device Ports	5 SATA 3Gb/s	2 SATA 3Gb/s
SEMB Support	•	
ESATA Support	•	•
Software RAID Compatible	•	•
Hot Plug Support	•	•
Hardware LED Support	•	•
Package Size	364-ball HSBGA	40-pin QFN
Starter Kit	PB3726SATA300	CP3723

MHL Transmitters

Target Applications: Mobile phones, tablets, cameras, camcorders and portable media players

Features	SiI9244	SiI9232	SiI9236
HDMI Input	1		
Parallel Digital Video Input		1	1
MHL Output	1	1	1
Max Video Resolution	1080p/30Hz, 24 bit (8 bit/color)	1080p/30Hz, 24 bit (8 bit/color)	1080p/30Hz, 24 bit (8 bit/color)
Low Power for Maximum Mobile Battery Life	•	•	•
HDCP Encryption, Pre-programmed HDCP Keys		•	
Advanced Sleep Modes	•	•	•
Dolby® Digital, DTS Digital Audio		•	•
8-ch I ² S Interface @ 192 kHz		•	•
DE Generator		•	•
I ² C Interface for Configuration	•	•	•
Package	49-ball BGA	64-ball BGA	64-ball BGA
Starter Kit	CP9244	CP9232	CP9236

MHL-to-HDMI Bridge

Target Applications: Docking stations, converters and adapters

Features	SiI9292
MHL Input	1
HDMI Output	1
Max Video Resolution	1080p/30Hz, 24 bit (8 bit/color)
Low Power for Maximum Mobile Battery Life	•
Package	40-pin QFN
Starter Kit	CP9292

HDMI Transmitters

Target Applications: Mobile phones, tablets, cameras, camcorders and portable media players

Features	SiI9024ARBT	SiI9024AYBT	SiI9024ACNU	SiI9022ARBT	SiI9022AYBT	SiI9022ACNU
RGB Input, YCbCr Input	Up to 24-bit	Up to 24-bit	Up to 24-bit	Up to 24-bit	Up to 24-bit	Up to 24-bit
HDMI Output	1	1	1	1	1	1
Max Video Resolution	1080p/60Hz, 24 bit (8 bit/color)	1080p/60Hz, 24 bit (8 bit/color)	1080p/60Hz, 24 bit (8 bit/color)	1080p/60Hz, 24 bit (8 bit/color)	1080p/60Hz, 24 bit (8 bit/color)	1080p/60Hz, 24 bit (8 bit/color)
Low Power for Maximum Mobile Battery Life	•	•	•	•	•	•
3D Support	•	•	•	•	•	•
HDCP Encryption, Pre-programmed HDCP Keys	•	•	•			
CEC Support	•	•	•	•	•	•
Advanced Sleep Modes	•	•	•	•	•	•
S/PDIF Compressed Audio	•	•	•	•	•	•
Dolby® Digital, DTS Digital Audio	32-96kHz	32-96kHz	32-96kHz	32-96kHz	32-96kHz	32-96kHz
8-ch I ² S Interface @ 192 kHz	•	•	•	•	•	•
I ² C Interface for Configuration	•	•	•	•	•	•
DE Generator	•	•	•	•	•	•
Package	81-ball BGA	49-ball BGA	72-pin QFN	81-ball BGA	49-ball BGA	72-pin QFN
Starter Kit	CP9024ARBT	CP9024AYBT	CP9024ACNU	CP9022ARBT	CP9022AYBT	CP9022ACNU



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