Single Board Computers

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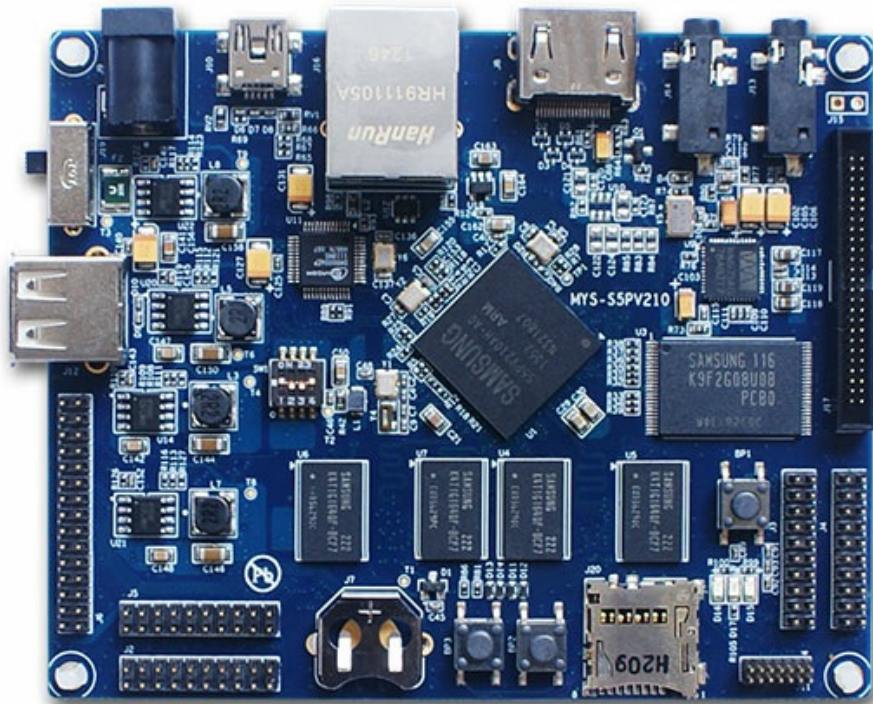
MYS-S5PV210 Single Board Computer

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The MYS-S5PV210 SBC board is a high-performance single board computer based on SAMSUNG S5PV210 application processor which is powered by 1GHz ARM Cortex-A8 core with built-in the programmable PowerVR SGX540 core. It has 512MB DDR2 SDRAM and 256MB Nand Flash on board. It carries out peripheral interfaces supportingHDMI, USB Host/OTG, Ethernet, LCD and touch screen, Micro SD card, two Camera interfaces, Audio, etc. It features 1080p HDMI video output which can implement large size monitor and TV display. The board supports running Andriod 4.0.3 and is delivered with full periphery driver source code to help users make quick software applications and evaluation for SAMSUNG S5PV210 processor.
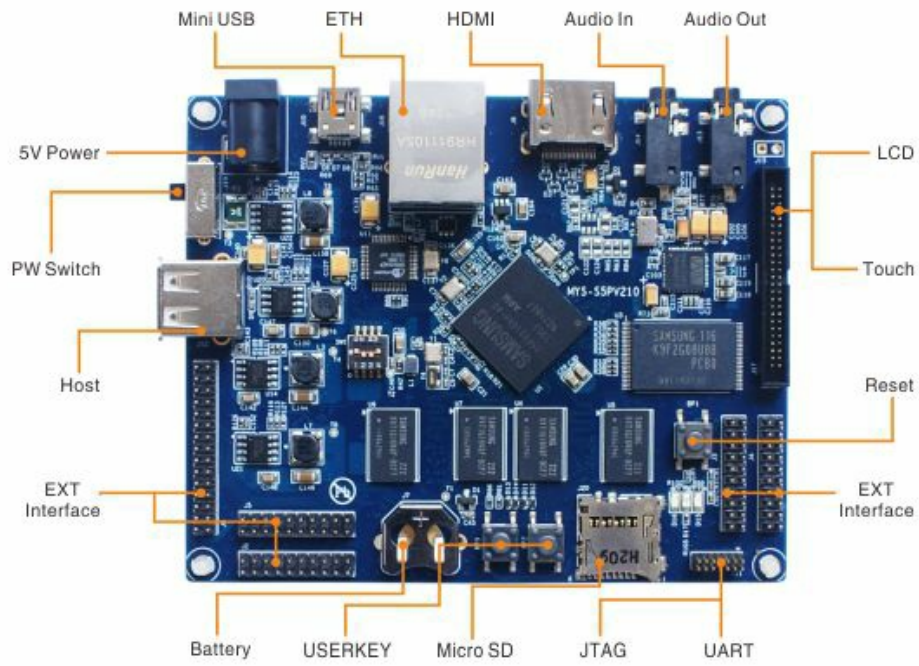
MYS-S5PV210 Single Board Computer

The MYS-S5PV210 Single Board Computer provides detailed schematic documents, user manual, datasheet and fully developed software package, these features make the board a solid reference to help users extensively evaluation, customization, develop hardware and software applications. The MYS-S5PV210 board is compact in size which is ideal for user to embed it into your next design as a controller board.

MYD-S5PV210 with LCD module

The MYS-S5PV210 SBC board has been broadly used in many fields covering consumer appliances, printers, video process , display system, tablet, PDA device and web terminals.

MYS-S5PV210 Peripheral Interfaces

Product Features

Processor

SAMSUNG S5PV210 Application Processor
- Up to 1-GHz ARM® Cortex™-A8 Core with NEON, also supports 800-MHz operation
- 32KB I-Cache; 32KB D-Cache; 512KB L2 Cache
- Onchip 64KB ROM and 96KB SRAM
- Built-in the programmable PowerVR SGX540 core
- 2D/3D Graphics Acceleration
- Multi Format Codec provides encoding and decoding of MPEG-4/H.263/H.264 up to 1080p@30fps and decoding of MPEG-2/VC1 video up to 1080p@30 fps

Memory and storage
- 512MB DDR2 SDRAM, 256 Nand Flash
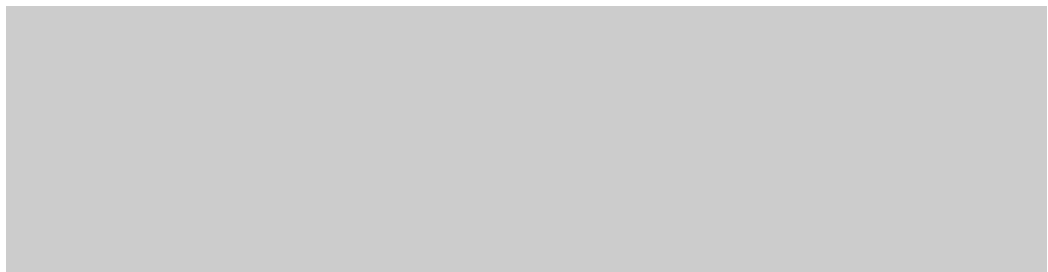- Micro SD card slot (support at most 32GB)

Periphery interfaces
- 1 x HDIM interface
- 1 x USB Host , 1 x USB OTG
- 1 x RS232 serial port (debug)
- 2 x Camera interfaces
- 10/100M Ethernet interface (RJ45)
- AC97 Audio input/output
- RTC
- 2 x User buttons, 2 x User LEDs
- JTAG debug interface, 20-pin,2.54mm
- Expansion Interfaces carry out: 2 x SPI, 2 x IIC, 3 x PWM, 4 x UART, 6 x ADC, 1 x SDIO and GPIOs (some pins are reused)
- TFT LCD interface
- Touch screen interface

Board features
- Board size: 105mm x 85mm
- PCB layer: 8-layer design
- Voltage supply: 5V/2A
- Working temperature: 0~70 Celsius

Software Features

Item	Name	Description
Bootloader	USB Bootloader	USB bootloader for programing image
	Uboot	1. support NandFlash read/write 2. download image 3. configure 4. Support memory display, compare and modify 5. support bootm,bootargs setting.

Linux kernal	Linux 3.0.87	Linux kernel for MYS-S5PV210
Device driver	ETH	Ethernet driver
	NANDFLASH	Nandflash driver
	USART, DBGU	Serial port driver
	USB_HOST, USB_OTG	USB driver
	MicroSD	TF card driver
	LCD	Support 4.3/7.0 inch LCD module
	TouchScreen	4 wire touch screen
	SPI	SPI driver
	I2C	I2C driver
	LED	LED driver
	Button	User button driver
	WM9714	Audio input/output driver
	HDMI	HDMI driver
	MFC Driver	MFC multimedia hardware decode driver
	2D/3D Graphic Driver	2D/3D hardware decode driver
	JPEG Driver	JPEG hardware decode driver
File system	Android 4.0.3	Ice Cream Sandwich, API level 15, NDK 8
Application Demo	Ethernet	Ethernet test
	Button	Button test
	TouchCalibration	TouchCalibration
	LED	Led test
	Audio	Audio test

Packing List

NO.	Item	QTY	Description
1	MYS-S5PV210	1pc	MYS-S5PV210 Single Board Computer
2	Ethernet cable	1pc	
3	USB cable	1pc	
4	Serial cable	1pc	DB9 to DB9
5	DVD	1pc	user manual, schematic in PDF format, datasheet, Android software package
6	LCD Module (optional)	1pc	4.3 or 7 inch LCD module (including touch screen)