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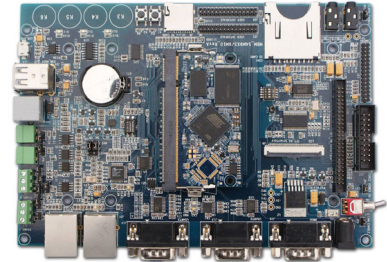
Accessories

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ATMEL MBS-SAM9X35 SBC Board

Order#: MBS-SAM9X35 Delivery Wt:1.5lb Lead Time[5week]

ATMEL AT91SAM9X35 based MBS-SAM9X35 SBC board is the latest product produced by Embest. it is consisted of one base board (MBM-SAM-9G) and one processor card (MBC-SAM9X35), this core board is the smallest 9X5 core on the market. It is so tiny that it can reduce much space of your products. You can use it easily to complete your project development and save much of your time to the market . Using industrial connectors can realize seamless connection with base board, greatly improve the stability of the product.



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MBS-SAM9X35 SBC board operates at up to 400MHz, with 256 Mbytes NandFlash, 128MB DDR II, 4MB serial DataFlash and 64KB serial EEPROM. It supports Linux, and offer angstrom and android-2.3.5_r1 test. The board provides a wide range of peripherals, including a high-speed USB2.0 port(480MHz), an Ethernet 10/100 interface, audio interface, a JTAG debug port, Micro SD card interface, SD/MMC card interface, CMOS camera interface. It supports video data collection.

Core Board Features:

- Processor AT91SAM9X25
- Core Board Size: 67mm*34mm
- 12MHz crystal oscillator
- 32.768MHz crystal oscillator
- 128MB DDR2 memory
- 256MB nandflash memory with chip selection control switch
- 4MB SPI Serial dataflash with chip selection control switch
- 64KB EEPROM
- 256B 1-wire EEPROM
- On-board power regulation
- Two user LEDs
- Optional PHY
- SDIOIMM200 card edge interface

Base board features

- The MBM-SAM-9G Base Board is a common main board to connect 9m10 core board & 9x5 core board.
- Base Board Size: 181mm*165mm
- Supply Voltage: 5V DC
- Supply Current: 2A
- Temperature Range: 0~70°C
- ONE WIRE EEPROM(1024-bit):
- 1xJTAG Interface;
- 1xCamera Interface(9M10 and 9G25);
- 2x24 bit LCD Interface (Resistive Touch Panel) ;
- 1xDBGU Interface (3-wire) ;
- 2xUART Serial Port (1x5-wire, 1x3-wire) ;
- 2x10/100Mb Ethernet Interface (core board and base board each have a PHY chip) ;
- 2xRS485 Interface;
- 2xCAN Bus Interface;
- 1xSmart DAA interface;
- 2xUSB 2.0 Host Interface;
- 1xUSB High-Speed USB2.0 OTG Interface;
- 4x touch buttons (QT TOUCH) ;

- o 2×physical buttons (reset,wakeup) :
- o 1×Micro SD Interface;
- o 1×SD card Interface;
- o 3×user LED;
- o 1×Analog Output (connected to speaker by default)
- o 1× Analog Output (connected to speaker by default)
- o 1×RTC Unit (without battery);
- o 50 GPIO User Extension Interface

Software Features

NO.	Example Programs
1	adc_touchscreen
2	adc_touchscreen
3	can
4	dma
5	lcd
6	getting-started
7	periph_protect
8	pmc_clock_switching
9	pwm
10	qtouch
11	smc_psram
12	spi_slave
13	ssc_dma_audio
14	syc
15	tc_capture_waveform
16	twi_eeprom
17	twi_slave
18	usart_hw_handshaking
19	usart_serial
20	usart_spi
21	usart_synchronous
22	hsmci_multimedia_card
23	hsmci_sdcard
24	hsmci_sdio
25	smc_nandflash
26	spi_serialflash
27	usb_audio_looprec
28	usb_cdc_serial
29	usb_core
30	usb_hid_keyboard
31	usb_hid_mouse
32	usb_hid_msd
33	usb_hid_tansfer
34	usb_iad_cdc_cdc
35	usb_iad_cdc_hid
36	usb_iad_cdc_msd

Linux software resources table

Type	function	Desciprion	
Bootloader	AT91Bootstrap	Guide to Uboot	
	Uboot	1.Support NandFlash to erase,read and write 2. Support net to download Image 3.Support to set and keep environment variables 4.Support memory to appear , compare and modify 5. Support boot and bootargsto set	
	Ethernet driver	ETH0	
	Serial driver	USART0 DBGU	
	CAN	CAN0 CAN1	
	USB	USB_HOST*2 USB_OTG	
	Kernel	SD card driver	Micro SD SD Card
		SMD driver	
		LCD+Touch	
		Zigbee driver	
SPI driver			
TWI driver			
Qtouch key driver			
DMA driver			
GPIO driver			
Androidrom file system			

File system

Angstrom file system
Android file system

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