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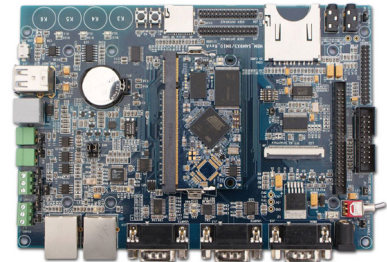
Accessories

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ATMEL MBS-SAM9G35 SBC Board

Order#: MBS-SAM9G35 Delivery Wt:1.5lb Lead Time[5weeks]

ATMEL AT91SAM9G35 based MBS-SAM9G35 SBC board is the latest product produced by Embest. it is consisted of one base board (MBM-SAM-9G) and one processor card (MBC-SAM9G15).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 products.



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MBS-SAM9G35 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:

- o Processor AT91SAM9G35
- o Core Board Size:67mm*34mm
- o 12MHz crystal oscillator
- o 32.768MHz crystal oscillator
- o 128MB DDR2 memory
- o 256MB nandflash memory with chip selection control switch
- o 4MB SPI Serial dataflash with chip selection control switch

- o 64KB EEPROM
- o 256B 1-wire EEPROM
- o On-board power regulation
- o Two user LEDs
- o Optional PHY

Base board features

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

- 1×Micro SD Interface;
- 1×SD card Interface;
- 3×user LED;
- 1×Analog Output (connected to speaker by default)
- 1× Analog Output (connected to speaker by default)
- 1×RTC Unit (without battery);
- 50 GPIO User Extension Interface

Software Features

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

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
	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	
File system	DMA driver	
	GPIO driver	
	Angstrom file system	Android file system

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