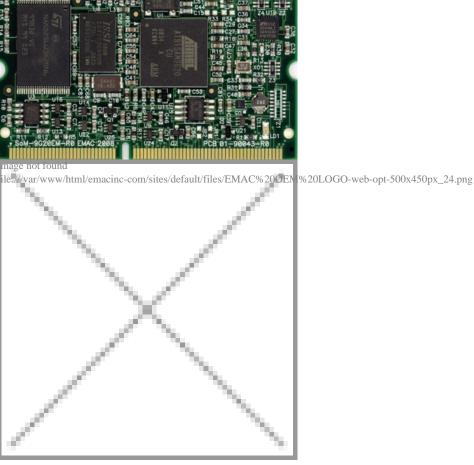


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## SoM-9G20M ARM System on Module



Small, 144 pin SODIMM form factor (2.66" x 1.5")

Atmel ARM9 Jazelle AT91SAM9G20 400Mhz Processor

10/100BaseT Ethernet with on-board PHY

6x Serial ports (4x with Handshake; 7x Serial Ports Optional)

2x USB 2.0 (Full Speed) Host ports

1x USB 2.0 (Full Speed) Device port

Up to 64 MB of SDRAM

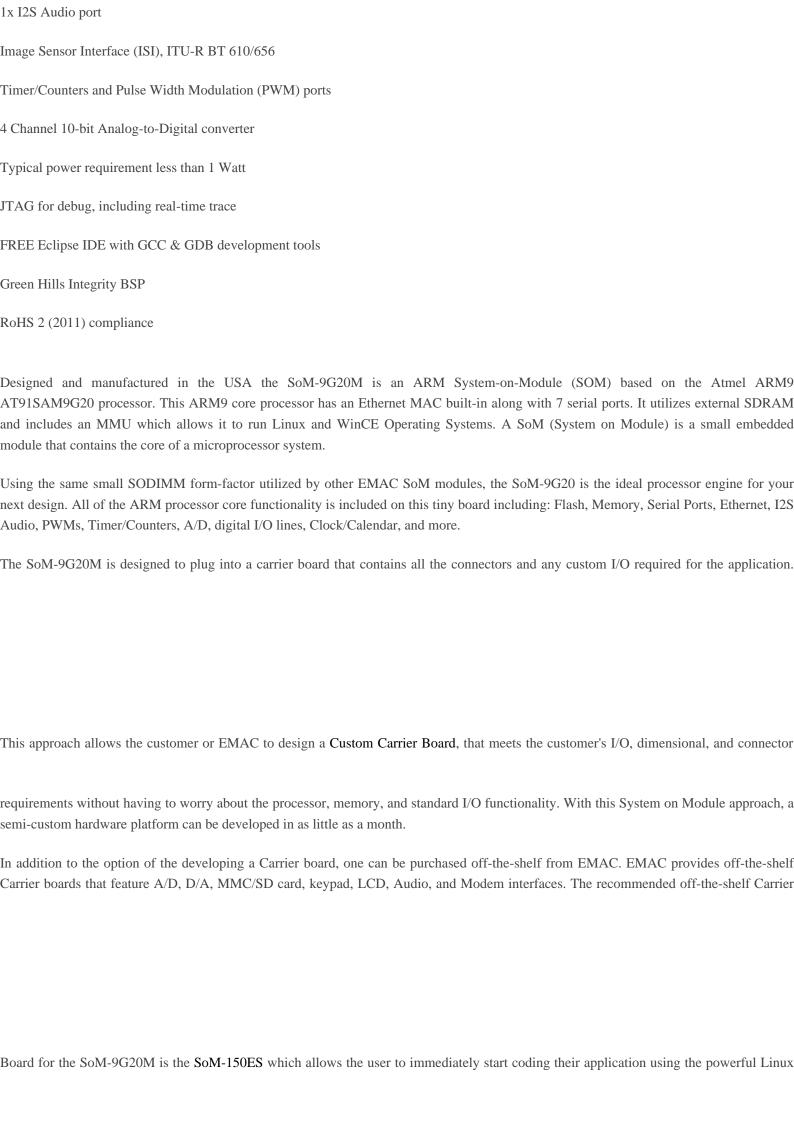
Up to 1 GB of NAND Flash

Up to 8 MB of Serial Data Flash

Battery backed Real Time Clock

SD/MMC Flash Card Interface

2x SPI ports



The System On Module approach provides the flexibility of a fully customized product at a greatly reduced cost. **Specifications** SOM Type: Microcontroller SODIMM Modules Processor Embedded Atmel ARM9 AT91SAM9G20 Clock Speed: 400 MHz Real Time Clock: Memory Primary mash: up to 4GB eMMC Flash Secondary Flash: up to 16MB of Serial Data Flash Memory Misc.: System Reset: Supervisor with external Reset Button provision Flash Disk: 4-bit Parallel or SPI serial SDHC/MMC interface Grimary I/O 32x GPIO 16 ma. drive when used as an output SDIO: 1x SDIO Port Audio: I2S Synchronous Serial Controller with analog interface support USB: 2x USB 2.0 Full Speed Host 1x USB 2.0 Full Speed Device ports Serial Ports: 6x Serial ports (4x with Handshake; 7x Serial Ports Optional) I2C: Hardware I2C port Watchdog: Secondary I/O Timers/ Counters/ PWM: 2x 3 channel, 16-bit timers/counters with capture, compare, and PWM 20-bit interval timer plus 12-bit interval counter LPT Port: Keypad: PS/2: Analog on طرA D/A: Analog Misc.:

or WinCE Operating System and Tools.

Analog I/O: 4 channel, 10-bit Analog-to-Digital converter (ADC) Power: Power Management Controller allows selectively shutting down on processor I/O functionality and running from a slow clock. Dimensions Dimensions.  $2.66 \times 1.5 \text{ in}$ Form Factor: 144-pin Headless SODIMM Power Requirements 3.3 V Idle Current: 175 mA Constant Busy Loop Current: 225 mA Typical Current: 200 mA Typical Voltage: 3.3 V Max Boot Current: 225 mA Power Misc.: Constant busy loop with Ethernet PHY disabled: 90 mA Idle system with Ethernet PHY disabled: 65mA APM sleep mode using slow clock with Ethernet PHY disabled: 15mA Environmental
Low Operating remperature: -40 C High Operating Temperature: 85 C Upper Operating Humidity: 90% SCIVI-2020M-120 ARM9 ETH/USB/256MB FL/32MB RAM \$175.00 Stock

\$175.00 Stock Order: 0 Base Product: SoM-9G20M SoM-9G20M-130 w/ CPU, 1 GB FLASH 64 MB RAM \$190.00 Stock

Base Product: SoM-9G20M

\$155.00
Non-Stock
Base Product:
SoM-9G20M
SoM-9G20M-132
w/ CPU, 1 GB FLASH 64 MB RAM / 7com
\$210.00
Non-Stock
Base Product:
SoM-9G20M
Non-Stock Minimum Order:
50
Non-Stock NCNR:
1
Carrier Boards:
SoM-150ES-000
Standard Carrier Board
\$150.00
Base Product:
SoM-150ES
SoM-150ES-007
Bare-Bones Carrier Board
\$100.00
Base Product:
SoM-150ES
SoM-150ES-031
Deluxe Carrier Board with A/D, D/A, Audio
\$220.00
Base Product:
SoM-150ES
Source URL: https://www.emacinc.com/content/som-9g20m-0

SoM-9G20M-110

w/ CPU, 512 MB FLASH 16 MB RAM