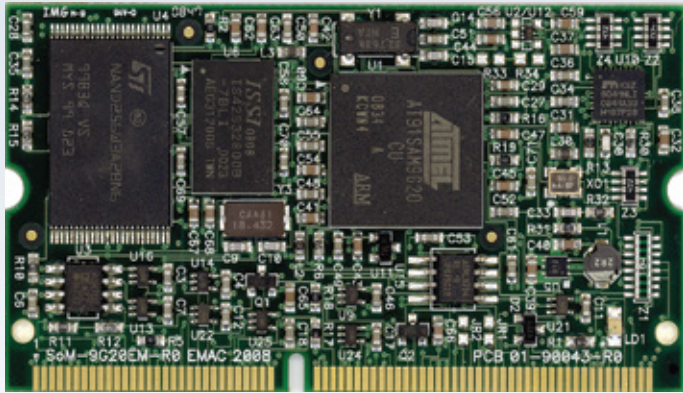


SoM-9G20M

Embedded System on Module (SoM)



Features

- Atmel Jazelle ARM9 AT91SAM9G20 400 MHz
- 64 MB of SDRAM, 133 MHz SDRAM
- Up to 1 GB NAND, Up to 8 MB Serial Data Flash
- Ethernet, A/D, SPI, I2C, I2S PWM, GPIO
- 3x USB, 6x Serial Ports & 1x SDIO Port
- Wide Temperature -40° to + 85° C

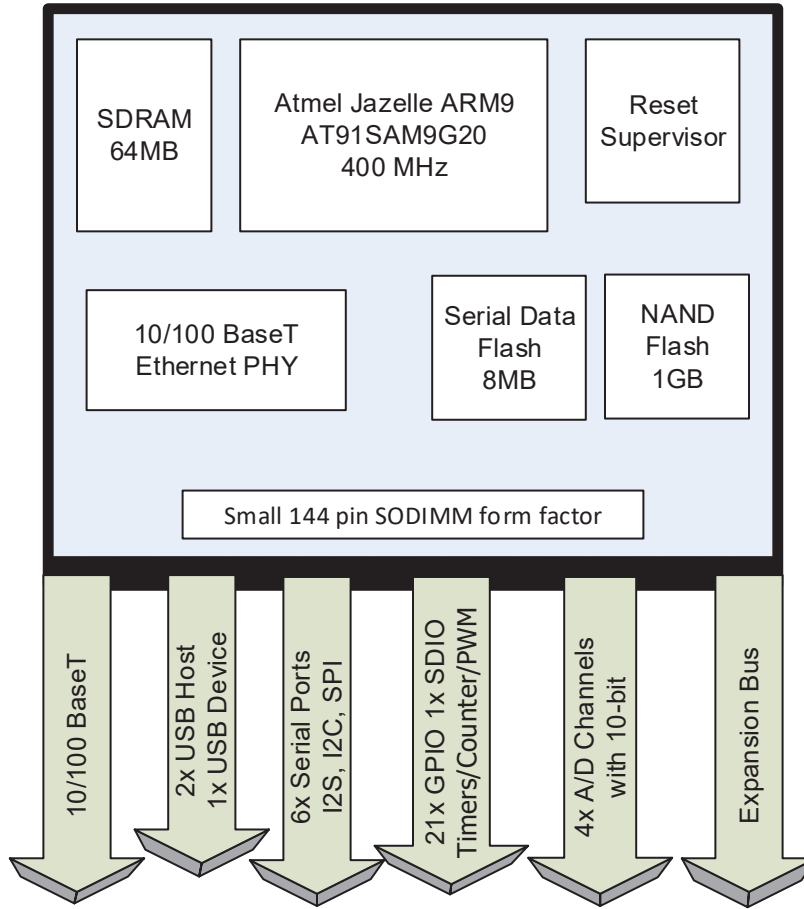


Specifications

Processor	Embedded Atmel ARM9 Jazelle AT91SAM9G20 400 MHz
Memory	Up to 64 MB of SDRAM, 133 MHz SDRAM Up to 1 GB of NAND Flash Up to 8 MB of Serial Data Flash SD/MMC Flash Card Interface
I/O	32x GPIO 1x SDIO 1x I2S Audio Port 1x 10/100 BaseT Ethernet with on-board PHY 2x USB 2.0 Full Speed Host Ports 1x USB 2.0 Full Speed Device Port 6x Serial ports (4x with Handshake; 7x Serial Ports Optional) 2x SPI Ports 5x Timer/Counters, 3x Programmable Clock Outputs, 4x PWM Battery backed Real Time Clock 1x I2C Port
Analog	4x A/D Channels with 10-bit
Bus Expansion	Local ARM Bus
OS	EMAC OE Embedded Linux
Dimensions	Small 144 pin SODIMM form factor 2.66" x 1.5" (67mm x 38mm)
Power Req.	3.3 V Typical Running Current Consumption 200mA
Environment	-40° to + 85° C Industrial Wide Temperature 90% Upper Operating Humidity



Block Diagram



Ordering Information

Product #	CPU	Memory	Serial	GPIO	USB	Analog	LAN	Temperature
SoM-9G20M-120	Atmel ARM9 Jazelle AT91SAM G20 400 MHz	32MB SDRAM 256MB Flash 8MB Serial Flash	6x	32x	2x FS Host 1x FS Device	4x 10-bit A/D Channels	1x 10/100 BaseT w/ On-board PHY	-40° to +85° C
SoM-9G20M-130	Atmel ARM9 Jazelle AT91SAM G20 400 MHz	64MB SDRAM 1GB NAND 8MB Serial Flash	6x	32x	2x FS Host 1x FS Device	4x 10-bit A/D Channels	1x 10/100 BaseT w/ On-board PHY	-40° to +85° C

Carrier Board Options

PRODUCT #	DESCRIPTION
SoM-150ES-000	Standard Carrier Board
SoM-150ES-007	Bare-Bones Carrier Board
SoM-150ES-031	Deluxe Carrier with A/D, D/A, Audio

