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AT91SAM9N12

Overview

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Applications



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The Atmel® | SMART ARM®-based SAM9N12 is an ARM926-based microprocessor running at 400MHz. Its extensive peripheral set includes an integrated graphics LCD controller that supports screen resolutions up to WVGA with 16M colors and 24bpp. In addition, it offers support for a wide range of external memories, including LPDDR/DDR2 and MLC NAND flash memory with up to 24-bit ECC. The SAM9N12 features multiple communication interfaces, such as a Full Speed USB host and device with on-chip transceivers, SD/SDIO/MMC, USARTs, SPIs, I²S and I²C. The device is available in a 217-ball BGA package with 0.8mm ball pitch as well as a 247-ball BGA package with 0.5mm ball pitch.

Key Parameters

Parameter	Value
Pin Count:	217
Max. Operating Freq. (MHz):	400 MHz
CPU:	ARM926
Max I/O Pins:	105
Ext Interrupts:	105
USB Transceiver:	2
USB Speed:	Full Speed
USB Interface:	Host, Device
SPI:	2
TWI (I2C):	2

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Ordering Information

Ordering Code	Package	Operational Range	Carrier Type	Samples	Atmel Store Availability ¹	Unit Price ²	Buy Online
AT91SAM9N12-CFU	TFBGA247_I	Industrial (A) (-40°C to 85°C)			0	Varies	Check Distributor
AT91SAM9N12-CFUR	TFBGA247_I	Industrial (A) (-40°C to 85°C)			0	Varies	Check Distributor
AT91SAM9N12-CU	LFBGA217_J	Industrial (A) (-40°C to 85°C)		Request	344	250 @ USD 7.34 each	 Add to Cart
AT91SAM9N12-CUR	LFBGA217_J	Industrial (A) (-40°C to 85°C)		Request	0	500 @ USD 0 each	 Add to Cart

¹Backlog orders can be placed for items currently not available.²Suggested retail price per unit for budgetary use only.

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