EMBEDDED SYSTEMS(EE30004)
Homework 9

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Find out the DSP processors and Microcontrollers which have CAN Bus.

Microcontrollers with CAN

Sr. No.	Company	Microcontroller	Description
1	Motorola	68HC908AZ60A	8-bit Microcontroller, CAN 2.0A, 1 Tx buffer + 2 Rx buffers, Filter: 1 global 8-bit mask, samples available since 1Q01, in production since 2Q01., 64-pin packaging (60K flash).
2	Philips	SJA1000	8-bit (78K0) Microcontroller, CAN 2.0B, 1 Tx buffer + 64 Rx FIFO, Filter: 1 global 32-bit mask or 2 global 16-bit masks, in production now, replaces 82C200.
3	Hitachi	H8/300H	16-bit Microcontroller, CAN 2.0B, 15 Tx/Rx buffers + 1 Rx buffer, Filter: 15 full-bit masks + 1 global mask,

			samples: n.a., production status: n.a., ASIC solution
4	Intel	87C196CA	The CAN controller is the 82527 core. It's completely register-compatible. The 8-bit CPU has 32 kByte OTP EPROM and 1280 bytes RAM. There are six 10-bit A/D converters and a host of digital I/O pins. Packaged in a 68-pin PLCC.
5	Microchip	PIC18C658	8-bit Microcontroller, CAN 2.0B, 3 Tx buffers + 2 Rx buffers, Filter: 6 full-bit acceptance Filters 2 acceptance Masks, in production now, RISC MCU with 32K-byte Program Memory, 1.5K-bytes of SRAM, CAN 2.0B, 10bit-ADC, 9-bit Addressable USART, SPI, I2C,2xPWM's, in a 68L PLCC, 64L TQFP.

DSP processors with CAN bus

Sr.No.	Company	DSP Processor	Description
1	Analog Devices	ADSP-BF707BBCZ	Dual 16-bit or

		-4	single 32-bit MAC support per cycle. CAN 1.0 embedded
2	Texas Instruments	TMS320F2812ZAYA	32-bit MCU with 150 MHz, 256 KB Flash, EMIF with Enhanced Controller Area Network
3	Analog Device	ADSC587WCBCZ4B10	DSP, DSC ARM, 2xSHARC, dual DDR with CAN 2.0
4	Texas Instruments	DM505MRBABF	Modular Controller Area Network (MCAN) Module – CAN 2.0B Protocol
5	Analog Devices	ADSP-BF7000	Low Power 200MHz Blackfin+ Embedded Processor with 128KByte L2 SRAM and CAN bus