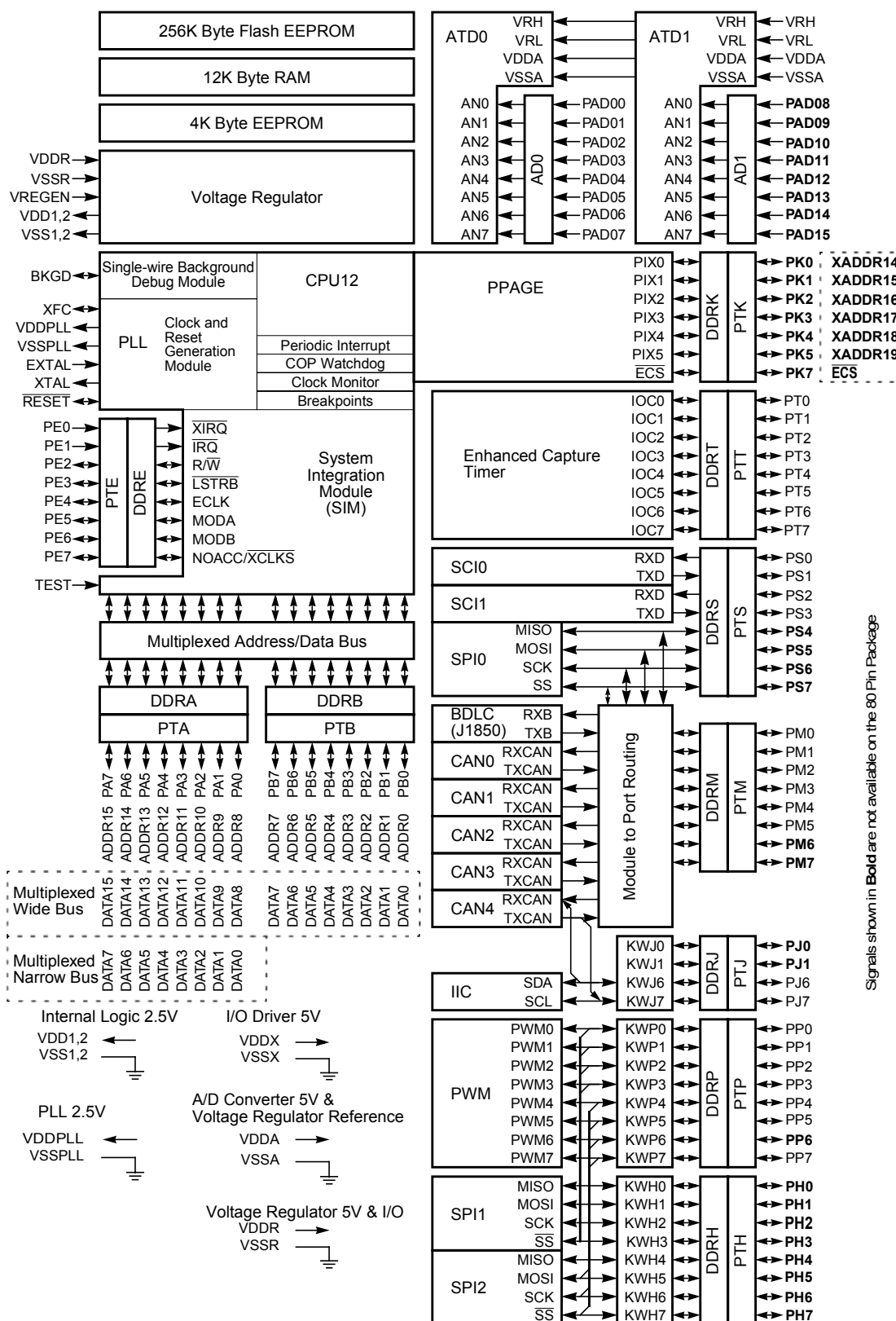


Figure 1-1 MC9S12DP256B Block Diagram



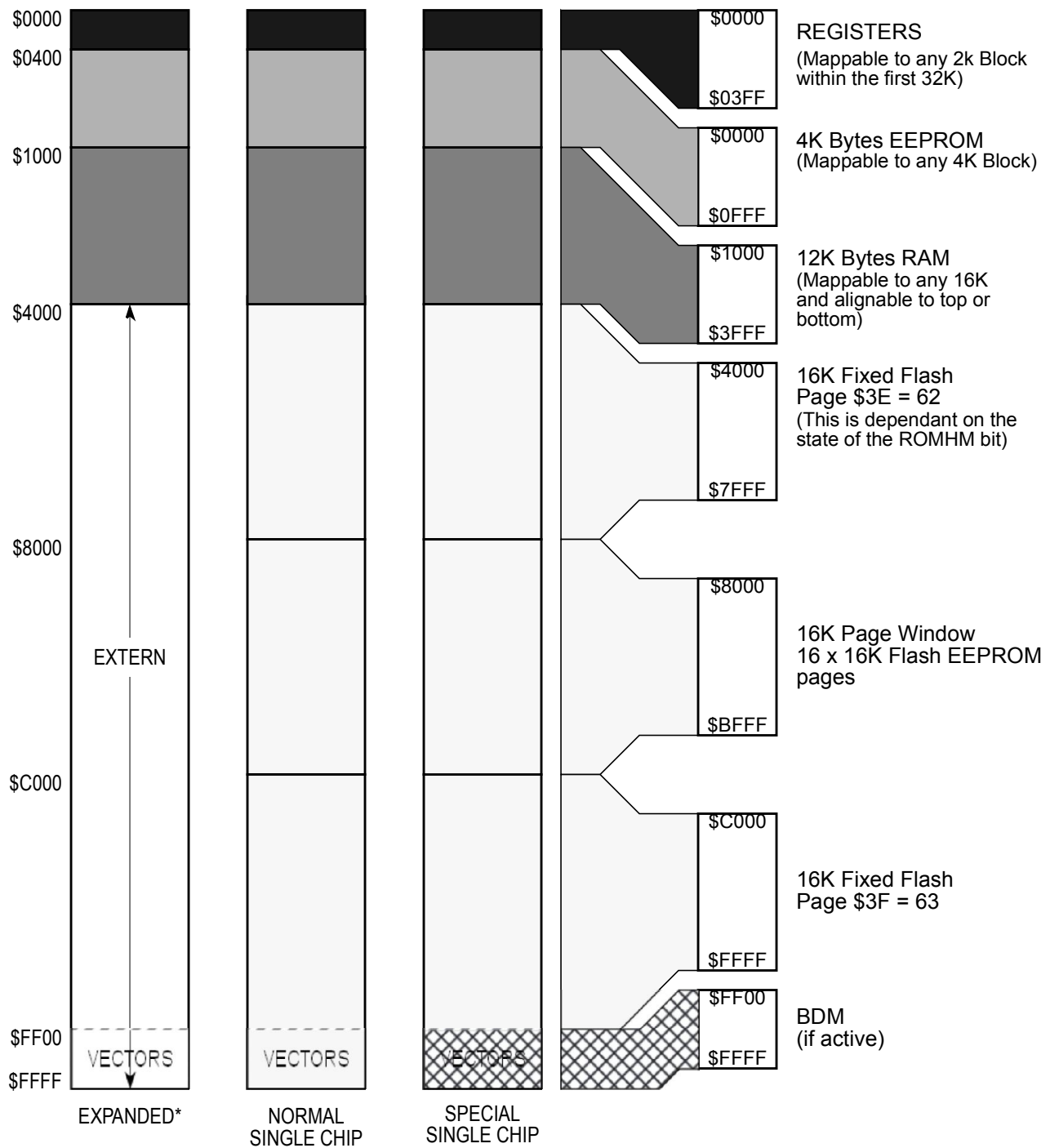
Signals shown in **Bold** are not available on the 80 Pin Package

1.5 Device Memory Map

Table 1-1 and **Figure 1-2** show the device memory map of the MC9S12DP256B after reset. Note that after reset the bottom 1k of the EEPROM (\$0000 - \$03FF) are hidden by the register space.

Table 1-1 Device Memory Map

Address	Module	Size (Bytes)
\$0000 - \$0017	CORE (Ports A, B, E, Modes, Inits, Test)	24
\$0018 - \$0019	Reserved	2
\$001A - \$001B	Device ID register (PARTID)	2
\$001C - \$001F	CORE (MEMSIZ, IRQ, HPRIO)	4
\$0020 - \$0027	Reserved	8
\$0028 - \$002F	CORE (Background Debug Mode)	8
\$0030 - \$0033	CORE (PPAGE, Port K)	4
\$0034 - \$003F	Clock and Reset Generator (PLL, RTI, COP)	12
\$0040 - \$007F	Enhanced Capture Timer 16-bit 8 channels	64
\$0080 - \$009F	Analog to Digital Converter 10-bit 8 channels (ATD0)	32
\$00A0 - \$00C7	Pulse Width Modulator 8-bit 8 channels (PWM)	40
\$00C8 - \$00CF	Serial Communications Interface 0 (SCI0)	8
\$00D0 - \$00D7	Serial Communications Interface 0 (SCI1)	8
\$00D8 - \$00DF	Serial Peripheral Interface (SPI0)	8
\$00E0 - \$00E7	Inter IC Bus	8
\$00E8 - \$00EF	Byte Data Link Controller (BDLC)	8
\$00F0 - \$00F7	Serial Peripheral Interface (SPI1)	8
\$00F8 - \$00FF	Serial Peripheral Interface (SPI2)	8
\$0100 - \$010F	Flash Control Register	16
\$0110 - \$011B	EEPROM Control Register	12
\$011C - \$011F	Reserved	4
\$0120 - \$013F	Analog to Digital Converter 10-bit 8 channels (ATD1)	32
\$0140 - \$017F	Motorola Scalable Can (CAN0)	64
\$0180 - \$01BF	Motorola Scalable Can (CAN1)	64
\$01C0 - \$01FF	Motorola Scalable Can (CAN2)	64
\$0200 - \$023F	Motorola Scalable Can (CAN3)	64
\$0240 - \$027F	Port Integration Module (PIM)	64
\$0280 - \$02BF	Motorola Scalable Can (CAN4)	64
\$02C0 - \$03FF	Reserved	320
\$0000 - \$0FFF	EEPROM array	4096
\$1000 - \$3FFF	RAM array	12288
\$4000 - \$7FFF	Fixed Flash EEPROM	16384
\$8000 - \$BFFF	Flash EEPROM Page Window	16384
\$C000 - \$FFFF	Fixed Flash EEPROM	16384

Figure 1-2 MC9S12DP256B Memory Map

* Assuming that a '0' was driven onto port K bit 7 during MCU