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Function	CSB737	CSB739	CSB740	CSB765
Microprocessor (Core)	Atmel AT91SAM9263 (ARM926EJ-S)	Atmel AT91SAM9M10 (ARM926EJ-S)	TI OMAP3530 (ARM Cortex-A8)	Renesas SH7724 (SH-4A)
Speed: CORE /SDRAM	200Mhz/100Mhz	400Mhz/133Mhz	600Mhz/133Mhz	500Mhz/167Mhz
I-Cache/ D-Cache, L2	16KB/16KB	32KB/32KB	16KB/16KB, 256KB L2	32KB/32KB, 256KB L2
Floating Point/MAC	-	-	64-Bit Single Precision FPU	32x32 Single Cycle MAC
Internal SRAM	96KB	64KB	64KB	128KB
SDRAM	64MB, 32-Bit SDR	128MB, 16-Bit DDR2-266	128MB, 32-Bit LPDDR-266	256MB, 16-Bit LPDDR-333
NOR FLASH	64MB, 16-Bit Spansion	64MB, 16-Bit Spansion	64MB, 16-Bit Spansion	64MB, 16-Bit Spansion
SLC NAND FLASH	512MB, 8-Bit	512MB, 8-Bit	512MB, 8-Bit	512MB, 8-Bit
Boot Options	NOR	NOR, NAND, SPI and SD	NOR and NAND	NOR
Expansion Bus Add/Data	25-Bit Address/16-Bit Data	25-Bit Address/16-Bit Data	25-Bit Address/16-Bit Data	25-Bit Address/16-Bit Data
RS232 DEBUG UART	Debug UART @ 115Kb	Debug UART @ 115Kb	UART2 @ 230Kbps	SCIF5 @ 230Kbps
Additional TTL UARTS (4-wire unless noted)	UART0 and 1 @ 230Kbps	UART0, 1 and 2 @ 6.25Mbps	UART1 and 3 @ 4Mbps	SCIF0, 2 and 4 (all 2-wire) @ 4Mbps
Slow IrDA (115Kbps), Fast IrDA (4Mbps)	SIR UART0 and 1	SIR UART0, 1 and 2	SIR: UART1 and 3 FIR:UART1 and 3	Dedicated IrDA Controller located on GPIO Pins
SPI, # of Chip Selects	SPI0, 2CS @ 46Mhz SPI1, 2CS @ 46Mhz	SPI0, 2CS @ 66Mhz SPI1, 2CS @ 66Mhz	McSPI1, 2CS @ 50Mhz McSPI3, 2CS @ 50Mhz	MSIOF0, 1CS @ 50Mhz MSIOF1, 1CS @ 50Mhz
I2C Bus	Multi-master @ 400Khz	Multi-master @ 400Khz	Multi-master @ 400Khz	Multi-master @ 400Khz
PWM Output	2	2	4	5
SD/MMC Interface	4-Bit SDIO @ 50Mhz	2 x 4-Bit SDIO @ 50Mhz	2 x 4-Bit SDIO @ 50Mhz	2 x 4-Bit SDIO @ 50Mhz
USB Host Ports	2 x USB2.0 12Mbit	2 x USB2.0 480Mbit	1 x USB2.0 480Mbit	1 x USB2.0 480Mbit
USB Device Ports	1 x USB2.0 12Mbit	1 x USB2.0 480Mbit OTG	1 x USB2.0 480Mbit OTG	1 x USB2.0 480Mbit OTG
Ethernet Interface	Internal 10/100	Internal 10/100	LAN9211 10/100	Internal 10/100
Audio Codec Interface	AC97	AC97	I2S via McBSP1	I2S via FSI0B
PCMCIA/Compact Flash	Compact Flash Only	Compact Flash Only	-	PCMCIA and CF+
Max LCD Res., Depth	640 x 480, 18-bit	1280x 860, 18-bit	1024 x 768, 18-bit	1280 x 720, 18-bit
Video Acceleration, Resolution @ fps	-	SAM9M10 - MPEG4/H.264 720 x 480 (D1) @ 30fps	MPEG4/H.264 720 x 480 (D1) @ 30fps	MPEG4/H.264/VC-1 1280 x 720 (720P) @ 30fps
2D/3D Graphics	2D Graphics Engine	-	OpenGL/Direct 3D Graphics Engine	2D Graphics Engine HW Scaling/Rotation
Video/Camera Input	-	8/10-Bit YUV/RGB	8/10-Bit YUV/RGB	8-Bit YUV/RGB
Available GPIO	10+	10+	10+	10+
Other Features, Board Notes	1 x CAN2.0B; Dedicated 8Mbyte Frame Buffer via External Bus I/F 1	Supports SAM9M10 or SAM9G45, Video on SAM9M10 only	Superscalar Cortex-A8; TMS320C64x+ Video DSP; NEON SIMD Coprocessor	Superscalar SH-4A Core; JPEG Output; 2x 24-Bit Audio DSP; SCIF3 on GPIO pins
Form Factor and Board Dimensions	SODIMM200 50.8mm x 66.8mm x 8mm (2.00" x 2.63" x 0.32")	SODIMM200 50.8mm x 66.8mm x 8mm (2.00" x 2.63" x 0.32")	SODIMM200 50.8mm x 66.8mm x 8mm (2.00" x 2.63" x 0.32")	SODIMM200 50.8mm x 66.8mm x 8mm (2.00" x 2.63" x 0.32")
Availability	Now	Now	Now	Now