



"ALWAYS COMPLETE"

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CSB737 - 200Mhz SAM9263 SODIMM SOM

The CSB737, designed, developed and manufactured by Cogent Computer Systems, Inc., is a highly integrated ARM926EJ-S SODIMM System On a Module (SOM). The CSB737 provides an ultra small, powerful, flexible engine for embedded control systems of all kinds.

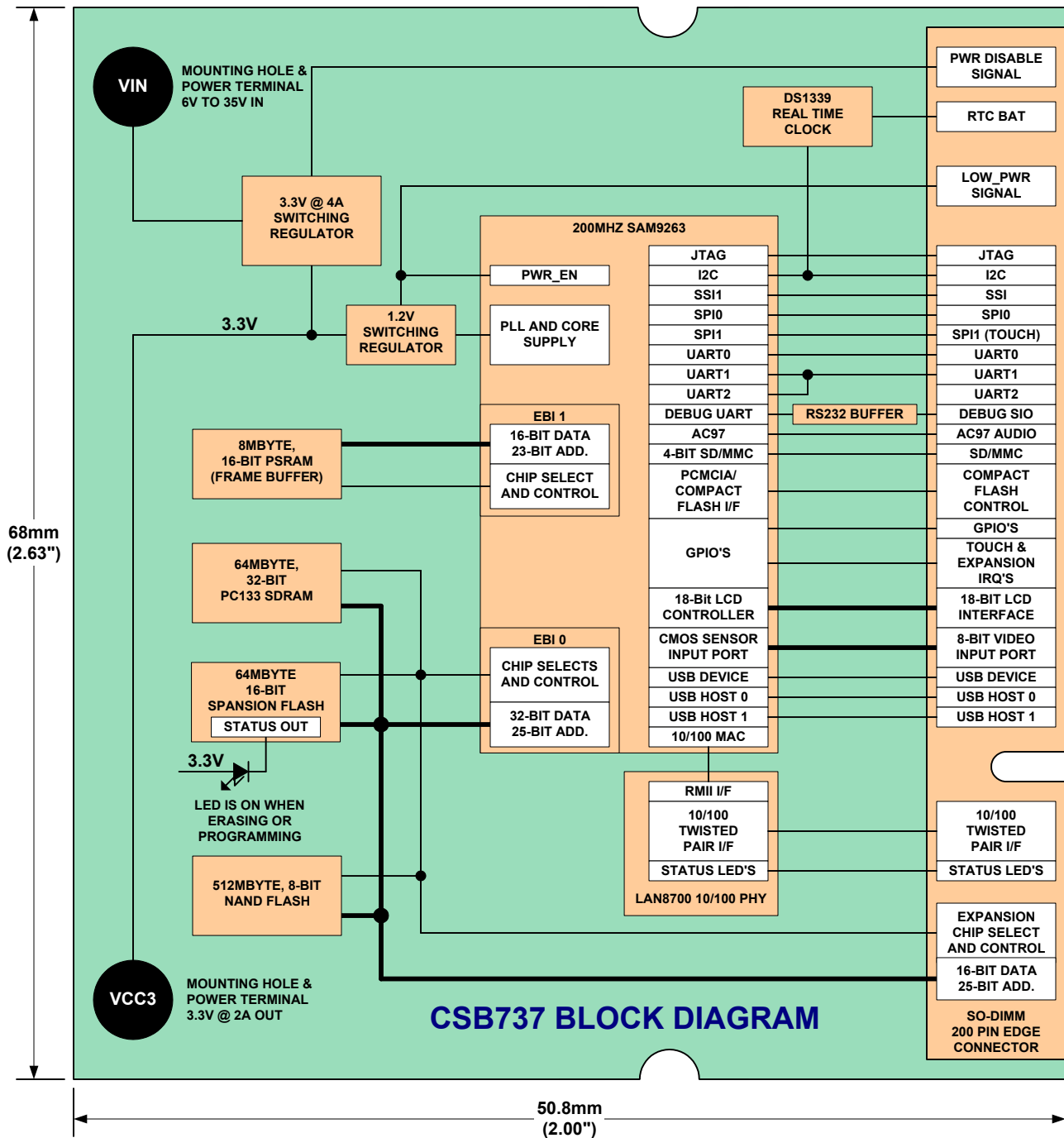
Specifications

- 200Mhz SAM9263 ARM926EJ-S CPU with 16K I-Cache and 16K D-Cache
- 96Kbytes of On-Chip, High Speed SRAM
- 64Mbyte SDRAM via External Bus Interface 0
- 64Mbyte S29GL512N FLASH, with Secure 256 Byte Sector and 128-Bit Unique ID
- 512Mbyte 8-Bit NAND Flash for On-Board OS and Applications Storage
- On-Chip LCD Controller up to 1024 x 768 with On-Chip 2D Graphics Acceleration
- 8Mbyte PSRAM via External Bus Interface 1 for LCD Frame Buffer
- 8/10-Bit Video Input Port supporting YUV4:2:2, CCIR656 and Standard CMOS Sensors
- On-Chip 10/100 Ethernet Controller with Low Power LAN8700 10/100 RMII PHY
- Dual 12Mbit USB 2.0 Host Ports and Single 12Mbit USB 2.0 Device Port
- DS1339 Real Time Clock with dedicated Battery Backup Input
- RS-232 Buffer for Debug Serial Port (SAM9263 Debug UART)
- Three Additional TTL UARTS, one 4-Wire (UART0) and two 2-Wire (UARTS 1 and 2)
- SPI (x2), SSI, AC97 and I2C buses for I/O Expansion such as Audio, A/D, D/A, etc.
- Single Channel 1Mbit/sec 2.0B Compliant CAN Interface
- SAM9263 SD/MMC Controller (4-Bit, SDIO Compliant)
- 25-Bit Address/16-Bit Data bus for Compact Flash and Generic Expansion
- 10 Dedicated GPIO lines (many peripherals can also be defined as GPIO)
- On-Board, Wide Input (6V to 35V) 3.3V Regulator provides 2A to the Target Board
- <750mw typical, 1200mw maximum, <50mw sleep to RAM

Introduction and Overview

All GPIO and peripherals are available via the low cost 200-pin SODIMM Edge Connector. Ultra small size, low power 240Mhz ARM926EJ-S Core, multiple serial interfaces, generous memory, 10/100 Ethernet and on-board 3.3V Regulator all combine to make the CSB737 an excellent choice for any size restricted, low power embedded system. In addition, the on-chip 2D Graphics acceleration and CMOS Sensor Input with YUV to RGB conversion, allow the CSB737 to target sophisticated multimedia and Video Streaming applications.

The CSB737 is constructed using state of the art PCB packaging technology such as fine pitch BGA's, micro-vias and fine line geometry. The CSB737 gives you access to this technology without the risk. You can integrate the CSB737 using a low cost, 4 layer PCB in just weeks, not months! We can even do it for you through our custom design services group.



Low Cost LCD Development Kit and I/O Expansion

The CSB737 is fully compatible with the CSB703 Base Development Platform providing 4.3" LCD w/ Touch, SD/MMC, Compact Flash, Dual SJA1000 CAN and Audio I/O. The CSB703 provides three I/O Sites allowing access to the complete line of CSB908 I/O modules including: Two-Cell Lithium-ION Battery Charger; Dual RS-232; Dual Isolated RS-485; S-Video/Composite Video Input; 24Watt Power over Ethernet; I2S Audio with Touch and more. Additionally, the CSB703 interfaces the CSB781 to the CSB909 series of Display Adapters. Currently these include: 6.5" 640x480 VGA; 7" 800x480 WVGA; DVI Interface for PC monitors up to 1280x1024; and LVDS up to 1024x768 XGA. Contact us today for more information regarding the CSB737, CSB703, CSB908 I/O Modules and CSB909 LCD Displays.