

"ALWAYS COMPLETE"

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CSB724 - 624Mhz PXA300 SODIMM SOM

The CSB724, designed, developed and manufactured by Cogent Computer Systems, Inc., is a highly integrated XScale SODIMM System On a Module (SOM). The CSB724 provides an ultra small, powerful, flexible engine for embedded control systems of all kinds.

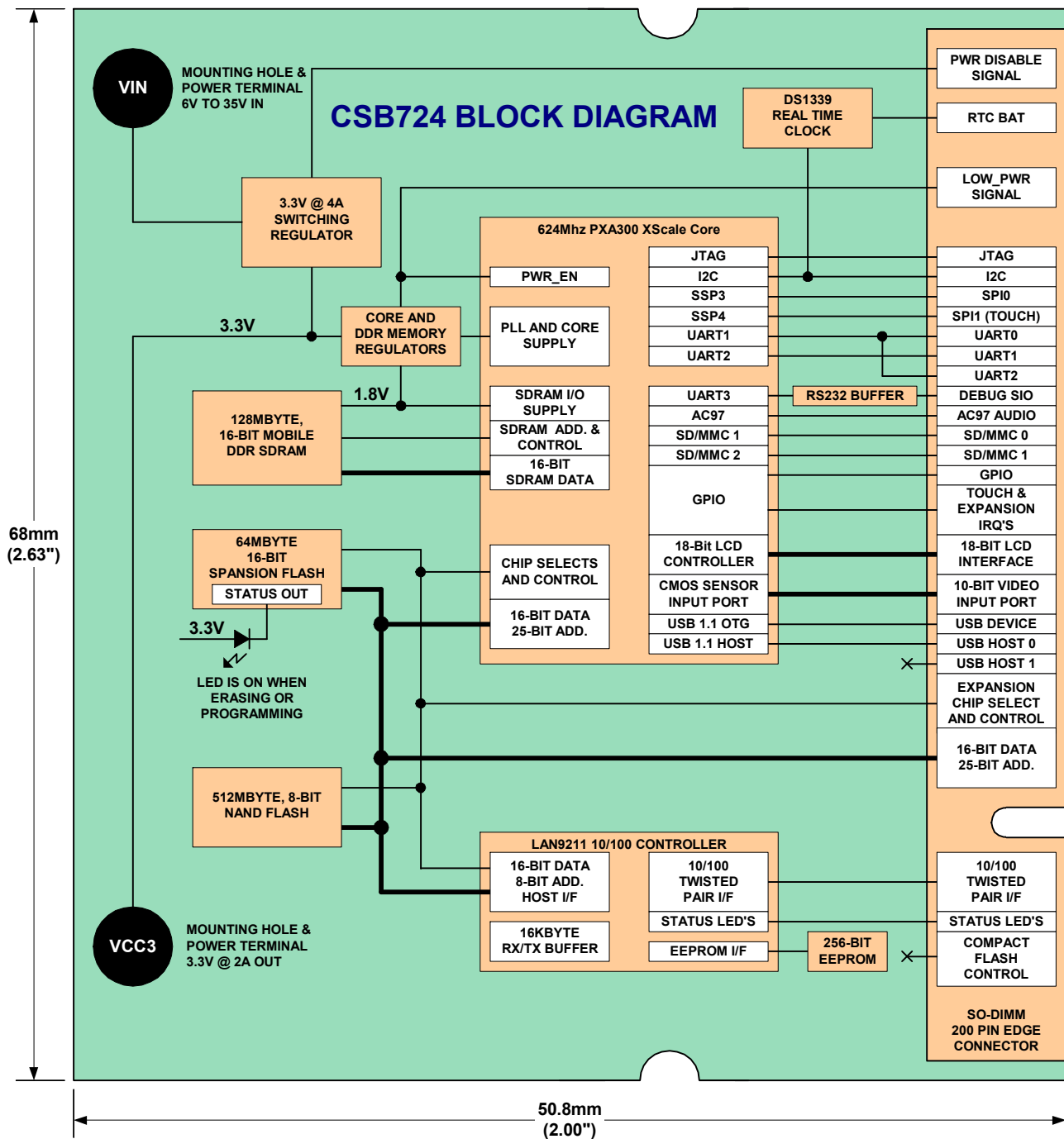
Specifications

- 624Mhz PXA300 XScale CPU with 32K I-Cache and 32K D-Cache
- On-Chip Single Cycle 256KByte High Speed SRAM
- 128Mbyte Mobile DDR SDRAM
- 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 18-Bit LCD Controller, optimized for 640x480
- On-Chip 2D Graphics Engine with Alpha Transparency/Overlay support
- 8/10-Bit Video Input Port supporting YUV4:2:2, CCIR656 and Standard CMOS Sensors
- 12Mbit USB 1.1 Host Port and 12Mbit USB 1.1 Device/OTG Port
- Low Power LAN9211 10/100Mbit Ethernet Controller
- DS1339 Real Time Clock with dedicated Battery Backup Input
- RS-232 Buffer for 2-Wire Debug Serial Port (PXA300 UART3)
- Two TTL UART's, one 8-Wire (PXA300 UART1) and one 4-Wire (PXA300 UART2)
- SPI (x2), AC97 and I2C buses for I/O Expansion such as Audio, A/D, D/A, etc.
- Two SD/MMC Controllers (4-Bit, SDIO Compliant)
- 25-Bit Address/16-Bit Data bus for 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, <20mw sleep to RAM

Introduction and Overview

All GPIO and peripherals are available via the low cost 200-pin SODIMM Edge Connector. Ultra small size, high performance 624Mhz XScale Core, multiple serial interfaces, generous memory, 10/100 Ethernet and on-board 3.3V Regulator all combine to make the CSB724 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 CSB724 to target sophisticated multimedia and graphics intensive applications.

The CSB724 is constructed using state of the art PCB packaging technology such as fine pitch BGA's, micro-vias and fine line geometry. The CSB724 gives you access to this technology without the risk. You can integrate the CSB724 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 CSB724 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: CSB909V6 6.5" 640x480 VGA; CSB909L7, 7" 800x480 WVGA; and the CSB909DV DVI Interface for PC monitors. Contact us today for more information regarding the CSB724, CSB703, CSB908 I/O Modules and CSB909 LCD Displays.