



"ALWAYS COMPLETE"

## **Cogent Computer Systems, Inc.**

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### **CSB760 - 240Mhz MCF5329 SODIMM SOM**

The CSB760, designed, developed and manufactured by Cogent Computer Systems, Inc., is a highly integrated Coldfire V3 SODIMM System On a Module (SOM). The CSB760 provides an ultra small, powerful, flexible engine for embedded control systems of all kinds.

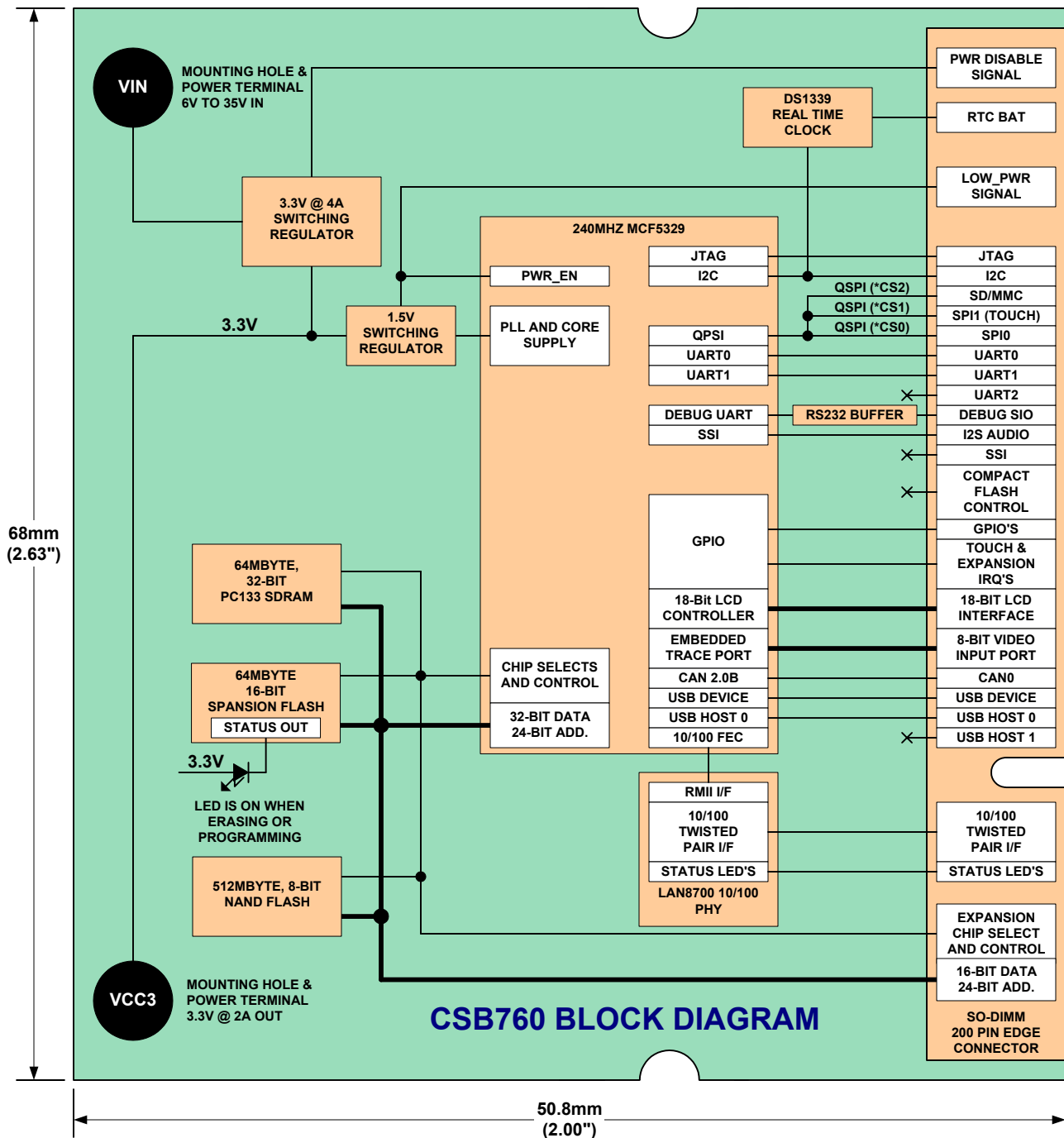
### **Specifications**

- 240Mhz MCF5329 Coldfire V3 CPU with 16K Unified Cache
- 32Kbytes of On-Chip, High Speed SRAM
- 64Mbyte 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 up to 800 x 600 (depending upon bits/pixel)
- On-Chip 10/100 Fast Ethernet Controller (FEC) with Low Power LAN8700 10/100 PHY
- 12Mbit USB 2.0 Host and 12Mbit USB 2.0 Device Ports
- DS1339 Real Time Clock with dedicated Battery Backup Input
- RS-232 Buffer for Debug Serial Port (MCF5329 UART2)
- Two Additional 4-Wire TTL UARTS
- Queued SPI, SSI (I2S) and I2C buses for I/O Expansion such as Audio, A/D, D/A, etc.
- One Channel 1Mbit/sec 2.0B Compliant CAN Interface
- SD/MMC Interface via Queued SPI (1-Bit)
- 24-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, <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 Coldfire V4 Core, multiple serial interfaces, generous memory, 10/100 Ethernet and on-board 3.3V Regulator all combine to make the CSB760 an excellent choice for any size restricted, low power embedded system. In addition, the on-chip LCD Controller and CAN 2.0B Interface allow the CSB760 to target Industrial Man-Machine Interface applications.

The CSB760 is constructed using state of the art PCB packaging technology such as fine pitch BGA's, micro-vias and fine line geometry. The CSB760 gives you access to this technology without the risk. You can integrate the CSB760 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 CSB760 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 CSB760, CSB703, CSB908 I/O Modules and CSB909 LCD Displays.