

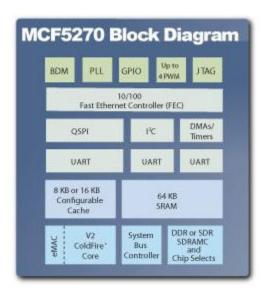
# **SB70LC Platform Reference**

#### Introduction

This document provides the memory map and locations of reference materials for those who wish to add additional hardware to their NetBurner device. Hardware dimensions, connectors and pinouts are described in the datasheet for your NetBurner device at <a href="https://www.netburner.com">www.netburner.com</a>.

### MCF5270 Processor Block Diagram

The block diagram of the 5270 processor is shown below. The Freescale reference manual provides in-depth information on the processor and is located in the \nburn\docs\Freescale directory of your NetBurner installation.



## **SB70LC Development Board Schematic**

The SB70LC development board schematic is located in the \nburn\docs\platform directory. This schematic can be used for design ideas in your own hardware implementation for power, RS-232 conversion or SD Flash card implementation.

# **Memory Map**

If you are adding peripherals to your NetBurner device address/data bus, you can choose unused memory locates from the table below. Once an area has been selected, you will need to configure the appropriate chip select address and option registers in the MCF5270 processor. Please refer to the chip select sections of the Freescale MCF5270 processor manual for details on the register configuration.

Memory Region	Address Range	Region Description
Undefined	0x00000000 to 0x01FFFFF	Undefined area to catch NULL
		pointers
SDRAM	0x02000000 to 0x027FFFFF	8Mbytes of SDRAM
Unused	0x02200000 to 0x1FFFFFF	Available to programmer
VBR	0x20000000 to 0x200003FF	5270 Vector Base Register
RAMBAR	0x20000000 to 0x2000FFFF	5270 internal SRAM
Unused	0x20010000 to 0x3FFFFFF	Available to programmer
IPSBAR	0x40000000 to 0x7FFFFFFF	5270 Internal device registers.
		These are accessible using the
		sim structure defined in
		sim5270.h.
Unused	0x80000000 to 0xFFBFFFFF	Available to programmer
Start of FLASH	0xFFC00000	Start of 512Kbytes Flash memory
Flash Monitor	0xFFC00000 to 0xFFC03FFF	The Boot Monitor
Monitor Params	0xFFC04000 to 0xFFC05FFF	Monitor parameter storage
User Params	0xFFC06000 to 0xFFC07FFF	User parameter storage
Application Code	0xFFC08000 to	Application code space
End of FLASH	0xFFC7FFFF	End of Flash memory