

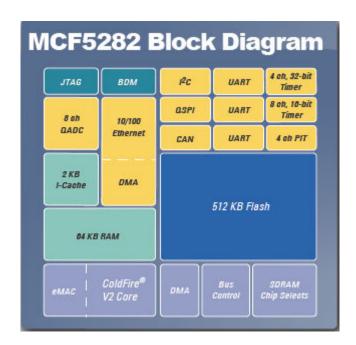
MOD5282-100IR Platform Reference

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 www.netburner.com.

MCF5282 Processor Block Diagram

The block diagram of the 5282 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.



Development Board Schematic

The MOD-DEV-100CR 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, RS-485, CAN Bus 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 MCF5282 processor. Please refer to the chip select sections of the Freescale MCF5282 processor manual for details on the register configuration.

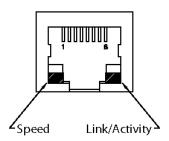
Memory Region	Address Range	Description	
Undefined	0x00000000 to 0x01FFFFF	Undefined area to catch NULL	
Ondenned	0x00000000 to 0x01FFFFF	pointers	
SDRAM	0x02000000 to 0x027FFFF	8Mbytes of SDRAM	
Unused	0x02800000 to 0x1FFFFFF	Available to Programmer	
RAMBAR	0x20000000 to 0x2000FFFF	5282 64K Internal Static RAM	
VBR	0x20000000 to 0x200003FF	The 5282 Vector Base Register	
Unused	0x20010000 to 0x3FFFFFF	Available to Programmer	
IPSBAR	0x40000000 to 0x7FFFFFF	The 5282 Internal Device Registers. These are accessible using the sim structure defined in sim5282.h	
Unused	0x80000000 to 0xFFBFFFFF	Available to Programmer	
Start of FLASH	0xFFC00000	Start 512K FLASH Memory	
Flash Monitor	0xFFC00000 to 0xFFC03FFF	16K The Boot Monitor	
Monitor Params	0xFFC04000 to 0xFFC05FFF	8K Monitor Parameter Storage	
User Params	0xFFC06000 to 0xFFC07FFF	8K User Parameter Storage	
Application Code	0xFFC08000 to	Compressed Application Code	
End of FLASH	0xFFC7FFFF	End of 512K FLASH Memory	

RJ-45 Connector

LEDs

LED 1: Ethernet speed: 10 MB (off) or 100 MB (on)

LED 2: Link/Activity



Pinout Information

Pin	Signal	Pin	Signal
1	TX+	5	
2	TX-	6	RX-
3	RX+	7	
4		8	