



MOD5272-100IR Platform Reference

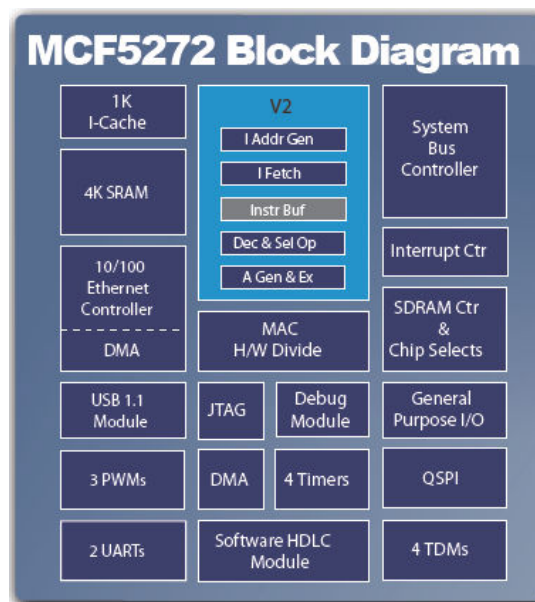
Revision 1.2
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Introduction

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.

MCF5272 Processor Block Diagram

The block diagram of the 5272 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 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 MCF5272 processor. Please refer to the chip select sections of the Freescale MCF5272 processor manual for details on the register configuration.

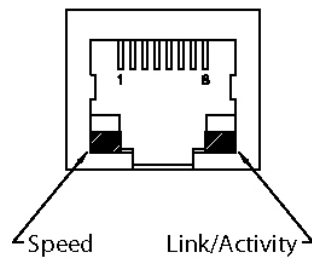
Memory Region	Address Range	Description
Undefined	0x00000000 to 0x01FFFFFF	Undefined area to catch NULL Pointers
SDRAM	0x02000000 to 0x027FFFFFFF	8MB of SDRAM
Unused	0x02800000 to 0x0FFFFFFF	Available to Programmer
MBAR	0x10000000 to 0x1000FFFF	The 5272 Internal Register Mapping
Unused	0x10010000 to 0x1FFFFFFF	Available to Programmer
RAMBAR	0x20000000 to 0x20000FFF	The 5272 Internal Static RAM
VBR	0x20000000 to 0x200003FF	The 5272 Vector Base Register
Unused	0x20002000 to 0xFFBFFFFF	Available to Programmer
Start of Flash Memory	0xFFC00000	Start of 2MB 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 Memory	0xFFDFFFFF	End of 2 MB of 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	----