

# PP5002

## From wikiPodLinux

The Portal Player PP5002 (<http://www.rockbox.org/twiki/bin/viewfile/Main/PortalPlayer?rev=1;filename=PP5002ProductBrief.pdf>) is used in the 1st, 2nd and 3rd generation iPods.

### Overview

location	description
0x28000000	SDRAM (32MB)
0x40000000	Fast RAM, also called <i>IRAM</i> (96KB)
0xf0000000	Cache Control

### CPU ID

location	description
0xc4000000	Processor ID
	0x55 CPU
	0xaa COP

### Interrupt Controller

location	description
0xcf001000	CPU interrupt status
	0x1 IDE0
	0x10 ser0
	0x20 i2c
	0x80 ser1
	0x800 timer1
	0x4000 GPIO
0xcf00101c	forced interrupt clear
0xcf001020	CPU interrupt enable mask status
0xcf001024	CPU interrupt enable mask set
0xcf001028	CPU interrupt enable mask clear
0xcf001030	COP interrupt enable mask status
0xcf001034	COP interrupt enable mask set

0xcf001038	COP interrupt enable mask clear
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### Timer Controller

location	description
0xcf001100	timer1 config
0xcf001104	timer1 present value
0xcf001108	timer2 config
	0xe0000000 config bits, rest are counter value
	0x80000000 enable?
0xcf00110c	timer2 present value
0xcf001110	microsecond timer

### Device Controller

location	description
0xcf005030	device reset
	0x4 (2) system
	0x100 (8) i2c
0xcf005000	clock enable

### CPU Controller

location	description
0xcf004054	sleep CPU
	0xce to wake up CPU
	0xca to sleep CPU
0xcf004058	sleep COP
	0xce to wake up COP
	0xca to sleep COP

### GPIO Controller

location	description
0xcf000000	GPIO port A enable

0xcf000004	GPIO port B enable
0xcf000008	GPIO port C enable
0xcf00000c	GPIO port D enable
0xcf000010	GPIO port A output enable
0xcf000020	GPIO port A output value
0xcf000030	GPIO port A input value
0xcf000040	GPIO port A interrupt status
0xcf000050	GPIO port A interrupt enable
0xcf000060	GPIO port A interrupt level
0xcf000070	GPIO port A interrupt clear

### LCD Controller

location	description
0xc0001000	LCD control
	0x2 backlight
	0x8000 LCD busy

### Serial Controller

location	description
0xc0006000	ser0
0xc0006040	ser1

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