

**General Memory Map**

	<b>Address</b>
<b>rom</b>	0x00000000
<b>sram</b>	0x01000000
<b>main_ram</b>	0x40000000
<b>csr</b>	0x82000000

**Control**

	<b>Address</b>	<b>Type</b>	<b>size</b>
<b>reset</b>	0x82000000	Read/Write	1
<b>scratch</b>	0x82000004	Read/Write	4
<b>bus errors</b>	0x82000014	Read only	4

**Control Status Registers**

	<b>Address</b>
<b>ctrl</b>	0x82000000
<b>identifier_mem</b>	0x82001000
<b>uart_phy</b>	0x82001800
<b>uart</b>	0x82002000
<b>timer0</b>	0x82002800
<b>buttons</b>	0x82003000
<b>lcd_core</b>	0x82003800

**UART and UART Physical**

	<b>Address</b>	<b>Type</b>	<b>size</b>
<b>Phy tuning word</b>	0x82001800	Read/Write	4
<b>Rx Tx</b>	0x82002000	Read/Write	1
<b>Tx Full</b>	0x82002004	Read only	1
<b>Rx Empty</b>	0x82002008	Read only	1
<b>Ev status</b>	0x8200200c	Read/Write	1
<b>Ev pending</b>	0x82002010	Read/Write	1
<b>Ev enable</b>	0x82002014	Read/Write	1

**Timer 0**

	<b>Address</b>	<b>Type</b>	<b>size</b>
<b>Load</b>	0x82002800	Read/Write	4
<b>Reload</b>	0x82002810	Read/Write	4
<b>en</b>	0x82002820	Read/Write	1
<b>Update</b>	0x82002824	Read/Write	1
<b>Value</b>	0x82002828	Read only	4
<b>Ev status</b>	0x82002838	Read/Write	1
<b>Ev pending</b>	0x8200283c	Read/Write	1
<b>Ev enable</b>	0x82002840	Read/Write	1

**Lcd core**

	<b>Address</b>	<b>Type</b>	<b>size</b>
<b>Data</b>	0x82003800	Read/Write	1
<b>Addres</b>	0x82003804	Read/Write	1
<b>Busy</b>	0x82003808	Read only	1
<b>Start</b>	0x8200380c	Read/Write	1
<b>Option</b>	0x82003810	Read/Write	1
<b>Chip selector</b>	0x82003814	Read/Write	1

**Buttons**

	<b>Address</b>	<b>Type</b>	<b>size</b>
<b>In</b>	0x82003000	Read only	1
<b>Direction</b>	0x82003004	Read only	1
<b>Ev status</b>	0x82003008	Read/Write	1
<b>Ev pending</b>	0x8200300c	Read/Write	1
<b>Ev enable</b>	0x82003010	Read/Write	1