

LCD_5110 Library Reference Manual
release 104

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

LCD_5110	
Class for Nokia 5110 screen	5

Chapter 2

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

LCD_5110.h	
Library for Nokia 5110 display	9
Terminal12.h	??
Terminal6.h	??

Chapter 3

Class Documentation

3.1 LCD_5110 Class Reference

Class for Nokia 5110 screen.

```
#include <LCD_5110.h>
```

Public Member Functions

- [LCD_5110](#) ()
Constructor with default pins.
- [LCD_5110](#) (uint8_t pinChipSelect, uint8_t pinSerialClock, uint8_t pinSerialData, uint8_t pinDataCommand, uint8_t pinReset, uint8_t pinBacklight, uint8_t pinPushButton)
Constructor with specific pins.
- void [begin](#) ()
Initialise.
- String [WhoAml](#) ()
Request information about the screen.
- void [clear](#) ()
Clear the screen.
- void [setBacklight](#) (boolean flag=true)
Switch backlight.
- void [setFont](#) (uint8_t font=0)
Select font.
- uint8_t [fontX](#) ()
Font size, x-axis.
- uint8_t [fontY](#) ()
Font size, y-axis.
- void [text](#) (uint8_t x, uint8_t y, String s)
Draw ASCII text (row and line coordinates)
- boolean [getButton](#) ()
Get button state.

3.1.1 Detailed Description

Class for Nokia 5110 screen.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 LCD_5110::LCD_5110 ()

Constructor with default pins.

Note

Default pins for LaunchPad MSP430G2553 / StellarPad LM4F

P2_2 / PA_7 = Chip Select

P2_4 / PA_3 = Serial Clock

P2_0 / PA_5 = Serial Data

P2_3 / PA_2 = Data/Command

P1_0 / PB_5 = Reset

P2_1 / PA_6 = Backlight

PUSH2 / PUSH2 = Push 2 Button

3.1.2.2 LCD_5110::LCD_5110 (uint8_t *pinChipSelect*, uint8_t *pinSerialClock*, uint8_t *pinSerialData*, uint8_t *pinDataCommand*, uint8_t *pinReset*, uint8_t *pinBacklight*, uint8_t *pinPushButton*)

Constructor with specific pins.

Parameters

<i>pinChipSelect</i>	Chip Select pin number
<i>pinSerialClock</i>	Serial Clock pin number
<i>pinSerialData</i>	Serial Data pin number
<i>pinData-Command</i>	Data Command pin number
<i>pinReset</i>	Reset pin number
<i>pinBacklight</i>	Backlight pin number
<i>pinPushButton</i>	Push Button pin number

3.1.3 Member Function Documentation

3.1.3.1 uint8_t LCD_5110::fontX ()

Font size, x-axis.

Returns

horizontal size of current font, in pixels

3.1.3.2 uint8_t LCD_5110::fontY ()

Font size, y-axis.

Returns

vertical size of current font, in pixels

3.1.3.3 boolean LCD_5110::getButton ()

Get button state.

Returns

true=pressed, otherwise false

Note

in case the button is pressed, debounce is checked

3.1.3.4 void LCD_5110::setBacklight (boolean *flag* = true)

Switch backlight.

Parameters

<i>flag</i>	default=true backlight on, false off
-------------	--------------------------------------

3.1.3.5 void LCD_5110::setFont (uint8_t *font* = 0)

Select font.

Parameters

<i>font</i>	default=0=small, 1=large
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3.1.3.6 void LCD_5110::text (uint8_t *x*, uint8_t *y*, String *s*)

Draw ASCII text (row and line coordinates)

Parameters

<i>x</i>	row number, x-axis
<i>y</i>	line number, y-axis
<i>s</i>	text string

3.1.3.7 String LCD_5110::WhoAml ()

Request information about the screen.

Returns

string with hardware version

The documentation for this class was generated from the following files:

- [LCD_5110.h](#)
- LCD_5110.cpp

Chapter 4

File Documentation

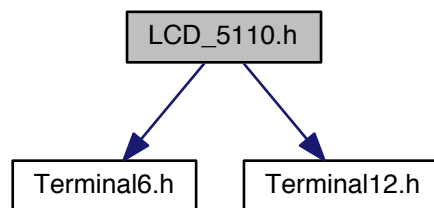
4.1 LCD_5110.h File Reference

Library for Nokia 5110 display.

```
#include "Terminal6.h"
```

```
#include "Terminal12.h"
```

Include dependency graph for LCD_5110.h:



Classes

- class [LCD_5110](#)

Class for Nokia 5110 screen.

4.1.1 Detailed Description

Library for Nokia 5110 display. Ported to LM4F120 by Bryan Schremp (bajabug@gmail.com) 11/10/2012

Uses GLCD fonts

Push button 2 to turn backlight on / off

Developed with [embedXcode](#)

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See Also

- Ported to LM4F120 by Bryan Schrep (bajabug@gmail.com) 11/10/2012
<http://forum.stellarisiti.com/topic/330-lcd-5110-lm4f120-sample-sketch-stellarpad>
- Fonts generated with MikroElektronika GLCD Font Creator 1.2.0.0
<http://www.mikroe.com>