

µLCD-32PT(SGC) 3.2" Serial LCD Display Module

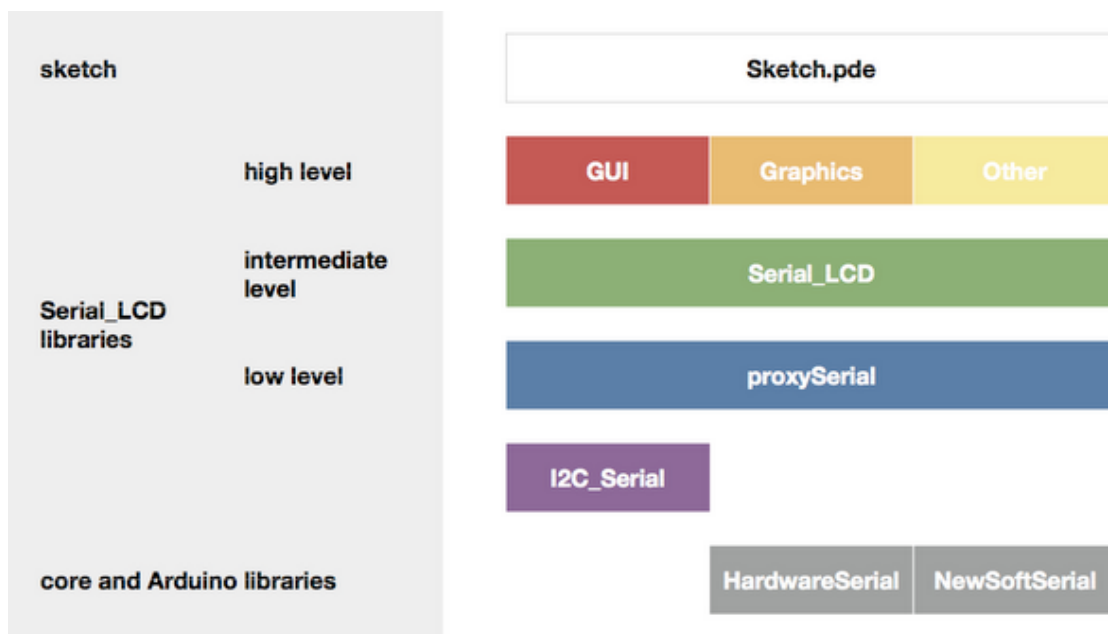
Arduino & chipKIT Library

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<http://sites.google.com/site/vilorei/>

http://github.com/rei-vilo/Serial_LCD



Serial_LCD

May 10, 2011 release 1
Jun 15, 2011 release 2
Jun 29, 2011 release 3
Jul 31, 2011 release 4
Aug 07, 2011 release 5
Oct 14, 2011 release 6
Oct 27, 2011 release 7
Nov 29, 2011 release 8
Dec 15, 2011 release 8.1

Dec 17, 2011 release 9
Dec 18, 2011 release 10
(x0, y0, x0+dx, y0+dy)
Dec 29, 2011 release 11
Jan 05, 2012 release 12
Jan 11, 2012 release 13

Jan 14, 2012 release 14
Jan 16, 2012 release 15
Jan 20, 2012 release 16

initial release

features added and bugs fixed

setBackgroundColour added and SD card

stdint.h types for chipKIT compatibility

playing sounds: up to 250 mA!

ellipse and detectTouchRegion from sebgioux

setSpeed fixed for 155200

read pixel colour and new colour functions

Arduino 1.0 implementation test no longer compatible with 0022

max vertical and horizontal according to orientation

(x0, y0, dx, fy) functions added to (x1, x2, y1, y2) =

readTextFile from sebgioux

RAW for screen copy to/read from SD

VGA support and library release number check, updated examples

Goldelox support with 8-bits coordinates

RAW partition automatic detection

self-generated screen parameters with example Info_main

Jan 24, 2012 release 17
Jan 27, 2012 release 18
Jan 28, 2012 release 118
Jan 28, 2012 release 119
Feb 12, 2012 release 119a

uOLED 1.6"" and uLCD 4.3"" compatibility test successful
stability enhancement
new index
colours constants e.g. redColour
__AVR_ATmega328P__ added

proxySerial

Aug 04, 2011 release 1
Sep 23, 2011 release 2
Oct 10, 2011 release 3
Oct 24, 2011 release 4

Nov 02, 2011 release 5

Dec 15, 2011 release 5.1

Jan 28, 2012 release 105
Feb 01, 2012 release 106
Feb 12, 2012 release 106a

chipKIT compatibility with external proxySerial.h
ms monitoring to avoid RX TX collapse
Stream.h class based i2cSerial library
serial port managed in main only - setSpeed added -
proxySerial still needed
HardwareSerial derived from Stream on chipKIT platform
by msproul
Arduino 1.0 implementation test - no longer compatible
with 0022
new index
ttoa time to string added
__AVR_ATmega328P__ added

button / GUI

Sep 18, 2011 release 1
Nov 25, 2011 release 2
copy to/read from SD
Nov 27, 2011 release 3
Dec 15, 2011 release 3.1

Dec 27, 2011 release 4
Dec 28, 2011 release 5
Dec 29, 2011 release 6
Jan 05, 2012 release 7

Jan 25, 2012 release 8
Jan 28, 2012 release 108
Feb 12, 2012 release 108a

dialog window with up to 3 buttons
faster dialog show/hide and optional area for screen

bugs fixed
Arduino 1.0 implementation test - no longer compatible
with 0022
ready for GUI = button + dialog box + menu + label
item-based refactoring for dialog box, menu and label
button library deprecated, superseded by GUI library
(x0, y0, dx, fy) functions added to (x1, x2, y1, y2) = (x0,
y0, x0+dx, y0+dy)
button with instant option (no de-bouncing)
new index
__AVR_ATmega328P__ added

Graphics

Jan 22, 2012 release 1
Jan 25, 2012 release 2

Jan 27, 2012 release 3
Jan 28, 2012 release 103
Jan 28, 2012 release 104
Jan 30, 2012 release 105
Feb 01, 2012 release 106
Feb 12, 2012 release 106a

new Graphics library with example Graphics_main
(x0, y0, dx, fy) functions added to (x1, x2, y1, y2) = (x0,
y0, x0+dx, y0+dy)
histogram graphic with example Histogram_main
new index
default colours for each graphic
improved consistency
ttoa used
__AVR_ATmega328P__ added

Tutorial

Full [documentation](#)

Required

- Arduino IDE 0023
- [NewSoftSerial release 11 beta](#)
- for Goldelox screens, hardware reset recommended with reset pin # (active low) be declared in myLCD.begin(#)
- I2C_Serial release 103

Bugs & ToDos

None

Roadmap

See [roadmap](#)

Serial Port Multiple Options

Mode	Boards	Pins
hardware	Arduino	Serial (pins 0 & 1)
	chipKIT	Serial (pins 0 & 1) or Serial1 (pins 39 & 40)
software	Arduino	with library NewSoftSerial release 11beta
	chipKIT	not available
i2c	Arduino	(pins 4 & 5) with library I2C_Serial
	chipKIT	(pins 4 & 5) with library I2C_Serial

SC16IS750 I2C slave bridge to serial

Arduino + chipKIT Library

Oct 06, 2011 release 1	initial release
Oct 10, 2011 release 2	Stream.h class based
Oct 25, 2011 release 3	I2C address selection through parameter default=0, 1, 2 or 12
Jan 28, 2012 release 103	new index

Based on

4D Systems PICASO-SGC Command Set

Software Interface Specification
Document Date: 1st March 2011
Document Revision: 6.0
www.4dsystems.com.au/