PJRC Electronic Projects
Components Available Worldwide

Shopping Cart Checkout Shipping Cost Download Website

Home MP3 Player 8051 Tools All Projects PJRC Store Site Map

You are here: <u>Teensy</u> ▶ <u>Teensyduino</u> ▶ <u>Libraries</u> ▶ LedDisplay

PJRC Store

- Teensy 3.1, \$19.80
- Teensy LC, \$11.65
- Teensy 2.0, \$16.00
- Teensy++ 2.0, \$24.00

Teensy

- Main Page
- Teensy 3.1
- Teensy-LC
- **Getting Started**
- **⊞** How-To Tips
- Code Library
- Projects
- Teensyduino
 - Main
 - **■** Tutorial
 - Download+Install
 - Basic Usage
 - Digital I/O
 - PWM & Tone
 - **Timing**
 - USB Serial
 - USB Keyboard
 - USB Mouse
 - USB Joystick
 - USB MIDI
 - USB Flight Sim
 - UART Serial
 - Libraries
 - Main List

LedDisplay Library

LedDisplay lets you use a Avago HCMS-29xx type display. These are small, very bright and easily readable 4 or 8 character displays. They are also quite expensive.

Download: LedDisplay.zip (Version 4)

Hardware Requirements

You will need a Avago HCMS-29xx display. The "xx" numbers represent the size and color, but all of them work the same way. This photo shows a <u>HCMS-2913</u>.

1 de 4 23/04/2015 12:44

- GLCD
- LiquidCrystal
- OctoWS2811
- FastSPI LED
- Matrix/Sprite
- LedDisplay
- LedControl
- DogLcd
- ST7565
- AltSoftSerial
- NewSoftSerial
- SoftwareSerial
- MIDI
- PS2Keyboard
- DmxSimple
- Firmata
- Wire
- SPI
- OneWire
- XBee
- VirtualWire
- X10
- IRremote
- TinyGPS
- USBHostShield
- Ethernet
- Bounce
- Keypad
- **■** Audio
- Encoder
- Ping
- CapacitiveSensor
- FreqCount
- FreqMeasure
- Servo
- PulsePosition
- Stepper
- AccelStepper
- FrequencyTimer2
- <u>Tlc5940</u>
- SoftPWM
- ShiftPWM



Basic Usage

LedDisplay myDisplay = LedDisplay(data, rs, clock, enable, reset, displayLength)

Create a LedDisplay object which prints to your HCMS-29xx display. The first 5 numbers are the pins where you connected the signals, and the last is the number of characters (either 4 or 8). You can connect more than on HCMS-29xx and create a separate LedDisplay object to print to each.

myDisplay.begin()

Initialize the HCMS-29xx display.

myDisplay.setBrightness(brightness)

Set the brightness, between 0 to 15.

myDisplay.home()

Set the printing position to the first (left most) character.

myDisplay.print(data)

Print text or numbers to the display.

- Time
- TimeAlarms

LedDisplay Arduino Library, using Avago HCMS-29xx displays with Teensy

- DS1307RTC
- Metro
- TimerOne
- MsTimer2
- EEPROM
- **■** Reference

Example Program

File > Examples > LedDisplay > LedDisplay_print

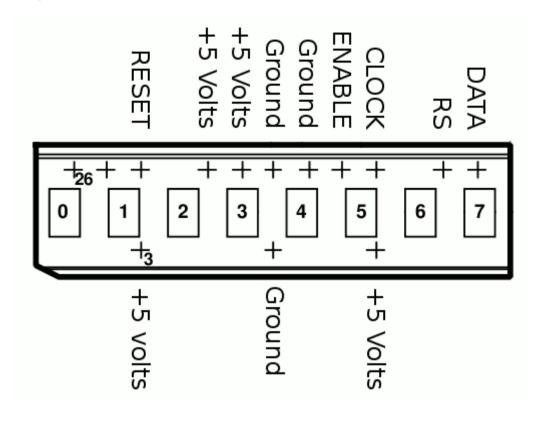
```
#include <LedDisplay.h>
// Define pins for the LED display.
// You can change these, just re-wire your board:
#define dataPin 6
                             // connects to the display's data in
#define registerSelect 7
                            // the display's register select pin
#define clockPin 8
                             // the display's clock pin
#define enable 9
                             // the display's chip enable pin
#define reset 10
                              // the display's reset pin
#define displayLength 8
                              // number of characters in the display
// create am instance of the LED display library:
LedDisplay myDisplay = LedDisplay(dataPin, registerSelect, clockPin,
enable, reset, displayLength);
int brightness = 15;
                     // screen brightness
void setup() {
  // initialize the display library:
 myDisplay.begin();
  // set the brightness of the display:
  myDisplay.setBrightness(brightness);
void loop() {
 // set the cursor to 0:
 myDisplay.home();
  // print the millis:
  myDisplay.print("ms:");
  myDisplay.print(millis());
```

Connections

5 signals need to connect from the display to pins on the teensy. It does not matter which pins you use, as long as

3 de 4 23/04/2015 12:44

you list them correctly when creating the LedDisplay object. 3 pins need to connect to ground and 4 connect to +5 volt power. The remaining two pins should be left unconnected.



Details

For more details, please visit the <u>official LedDisplay page</u>.

4 de 4 23/04/2015 12:44