Grove - 4-Digit Display



Grove - 4-Digit Display module is a 12-pin module. In this module, we utilize a TM1637 to scale down the number of controlling pins to 2. That is to say, it controls both the content and the luminance via only 2 digital pins of Arduino or Seeeduino. For projects that require alphanumeric display, this can be a nice choice.

Features

- 4 digit red alpha-numeric display
- Grove compatible interface (3.3V/5V)
- 8 adjustable luminance levels

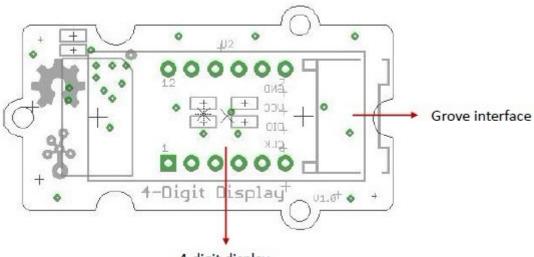
Application Ideas

- Time display
- Stopwatch
- Sensors' input display

Specifications

Item	Min	Typical	Max	Unit
Voltage	3.3	5.0	5.5	VDC
Current	0.2	27	80	mA
Dimensions		42x24x14		mm
Net Weight		7±1		g

Interface Function



4-digit display

Grove interface - Can be connected to digital port on Grove - Base Shield.

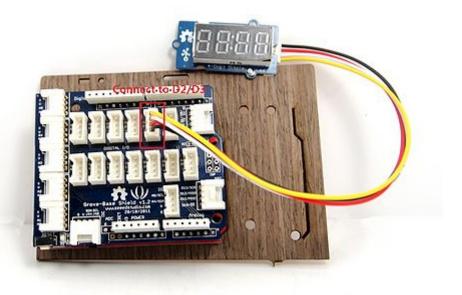
4 - digit display - Common anode digital tube.

Pin definition: CLK DIO VCC GND

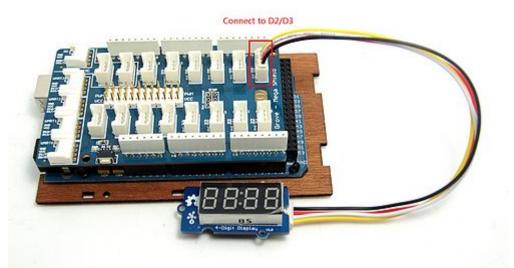
Usage

The module uses an LED drive chip - TM1637 to control the contents and change the luminance. Here we drive it to display time.

 Connect the Grove socket marked "IN" on the LED Strip Driver and digital port 2 of the <u>Grove - Base Shield</u> with a Grove cable. You can change to the digital port as you like. But don't forget to change the port number in the definition of the demo code at the same time.
Plug onto Arduino/Seeeduino or plug <u>Grove - Mega Shield</u> onto Arduino Mega. Seeeduino and Grove - 4-digit display:



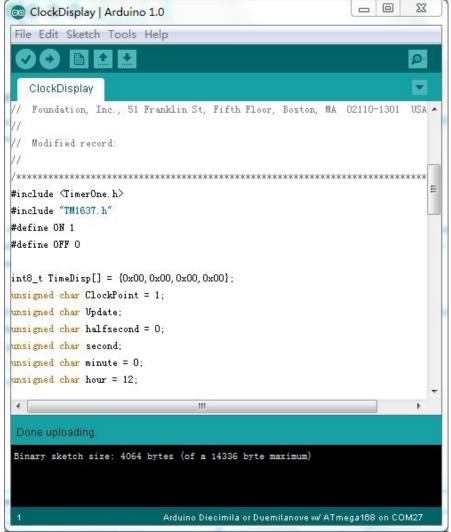
Arduino Mega and Grove - 4-digit display:



3. Connect Arduino/Seeeduino to PC via a USB cable.

4. Download <u>the 4-Digit Display library</u> and <u>TimerOne library</u>. Unzip and put them in the libraries file of Arduino IDE by the path: ..\arduino-1.0\libraries.

5. Restart the Arduino IDE, open one demo code you like, for example ClockDisplay directly by the path:File -> Example ->DigitalTube->ClockDisplay.



6. Upload the demo code and the clock will be ticking in a few seconds. Please click <u>here</u> if you do not know how to upload.

You can see this:

