



Grove - DMX512 User Manual

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Wiki: [http://www.seeedstudio.com/wiki/Grove - DMX512](http://www.seeedstudio.com/wiki/Grove_-_DMX512)

Bazaar: <http://www.seeedstudio.com/depot/Grove-DMX512-p-1447.html>

Document Revision History

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1. Introduction

The Grove - DMX512 is a adapter from Grove interface to DMX512 interface(industry standard EIA-485 interface). The module is based on SN75176 chip which can balance transmission lines and meet ANSI Standard EIA-485 interface. Now it is convenience to control stage lighting and DMX512 console for Arduino.



2. Feature

- Grove Interface and standard EIA-485 interface
- Easy to use
- Strong practicability

3. Usage

Arduino can easily control DMX512 device by using the Grove - DMX512 module. Take the LED crystal magic ball light as an example. The Specific Operation as follows:

- Connect Grove interface of Grove - DMX512 to D3 port of [Grove - Base Shield](#) and plug Grove - Base Shield to Arduino.
- Connect DMX512 interface of Grove - DMX512 to the DMXIN interface of the LED crystal magic ball light using a DMX cable. And power for the LED crystal magic ball light.
- Set the LED crystal magic ball light to DMX512 control mode. The control panel display "A001" at the moment.



- Download [File: DmxSimple Library](#) and Unzip it into the libraries file of Arduino IDE by the path: ..\arduino-1.0.1\libraries.
- Open the code directly by the path:File -> Example ->DmxSimple->Fadup1.
- You can see a interesting scene. Try to change code for your enjoy.

4. Resources

- [SN75176 Datasheet](#)
- [Grove - DMX512 Eagle File](#)
- [DmxSimple Library](#)