


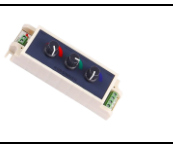
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Numerous controllers can do multiple stand alone and external controller effects. Requires separate power supplies depending on amount of LEDs required for project.


PWM is a method that reduces the average amount of deliverable power of an applied electrical signal. Furthermore, the process is achieved by effectively chopping up the signal into distinct parts. Also, in terms of functionality, control over the average current and voltage delivered to the load is achieved by rapidly turning the switch between the load and the source, on

**DUMB PIXEL:**


PWM Dimmer		Boxy and cheap	Single color Pulse Width Modulation dimmer.	5, 12, 24 volt	Cheap and easy to use.	Cheaply made	\$8	3"x3"x2"
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PWM RGB Dimmer		Plastic box	RGB 3 Channel Dimmer	5, 12, 24 volt	Cheap and easy to use	Cheaply made	\$13	5"x2"x1.5"
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IR 24 or 44 button remote		Boxy and needs line of sight.	Single color or color chase. Not very adaptable.	5, 12, 24 volt	Easy to use out of the box.	Very basic.	\$8	1"x2"x5"
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Wifi App with remote		Smaller, uses RF	More options and can be connected to Wifi for timer settings.	5, 12, 24 volt	Multiple options, timer settings. App is pretty straight forward.	Some difficulty to set up. Not intuitive.	\$17 (2pk)	5"x1.25"x5"
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Each output is one DMX channel. Example: Channel 1 red, Channel 2 Green, Channel 3 Blue. Whole strip lights up in that color.


DMX Control 4 Channel		Larger Box	Needs outside controller and power. This is just the decoder between console and strip. Depending on manufacture can change flicker rate. UL Listed available.	12, 24 volt	Solid construction, Professional results	Requires separate controller and power supply.	\$25 and up	7"x3.5"x2"
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DMX Control 12 Channel		Larger Box	Needs outside controller and power. This is just the decoder between console and strip. Depending on manufacture can change flicker rate. UL Listed available.	12, 24 volt	Solid construction, Professional results	Requires separate controller and power supply.	\$40 and up	7"x4"x2"
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DMX Control 32 Channel		Very large footprint	Needs outside controller and power. This is just the decoder between console and strip. Depending on manufacture can change flicker rate. UL Listed available.	12, 24 volt	Solid construction, Professional results	Requires separate controller and power supply.	\$80 and up	10"x6"x2"
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**SMART PIXEL:**

Each LED has RGB pixel control. Useful for chases, Pixel mapping and matrix.

RF Controller		Small and easy to hide	100 chases/color changes/etc. Plug and play.	5, 12, 24 volt	Cheap and great size to hide.	Difficult to navigate pre-programmed looks as holds last look.	\$6-12	2.5"x.5"x.75"
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SP107e		Small rounded box.	App controlled. Can run maximum 900 pixels.	5, 12, 24 volt	Affordable, easy to use with app.	Terminals hard to get to once installed.	\$17	1.5"x3.25"x.75"
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SP901		Boxy	Splitter for smart pixel. Control more smart pixels. Just add additional power for additional LEDs.	5, 12, 24 volt	Stretch pixel count with simple controller.	Can only clone LED length, not extend.	\$22	5.5"x2.25"x1.25"
DMX to SPI(TTL)		Boxy, Industrial	Convert DMX to smart pixel. Requires power injection and separate controller.	5, 12, 24 volt	Can control pixels from console.	Limited by DMX universe to 170 pixels.	\$75	5"x2"x1.5"
DMX to SPI(TTL) front								
Madrix Artnet Controller		Industrial space saving design.	Din Rail Mounted DMX/Artnet interface for Pixels.	5-24 volt	Can run 2 strings of Pixels and designed to fit in electrical project box.	Expensive	\$485	3.5"x2.5"x2"
ENTTEC Pixelator		Long and sleek	Rack Mounted	120 Volt	Can run 24 P-link Injectors	Expensive	\$1,200	432mmx239mmx32mm
ENNTEC P-Link Injector		Small and easy to hide	Screw terminals easy to attach wires, Ethernet for data	5v, 12v, 24v	Easy to use		\$57	83.5mmx65mmx31mm