

LED SMART MODULE
PRODUCT SERIES DATASHEET



LED Smart Module



88Light 5050 LED Smart Module is ideal for Backlighting, Decoration and Advertising.
The Modules can be mounted easily in any shape.
High brightness, Low power, Low voltage and low heat ensure high security.
88Light LED Smart Module is widely used in Shopping Mall, Parking lots, Bus, Bank, Living Room, Cafe and so on.

Applications:



PRODUCT FEATURES

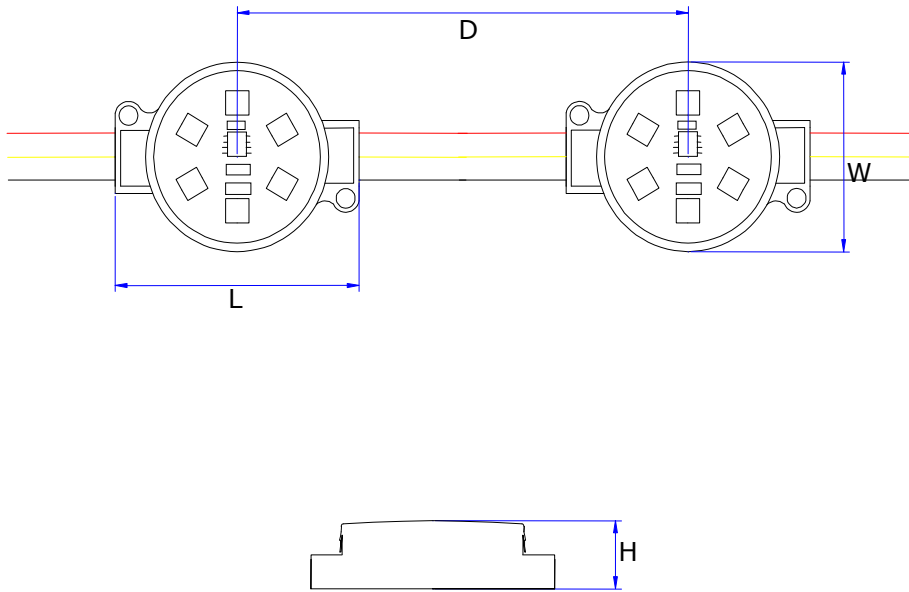
- Lightweight and slim, suitable for small spaces.
- Flexible, easy to bend for a variety of shapes.
- High quality single color, high brightness, low luminance decay SMD Chip.
- A variety of colors to choose, Kinds of patterns programmable.
- It is trimmable every module.
- 12Vdc low voltage, low power consumption, low heat, higher security.
- Long lifespan with free maintenance.
- Allow frequent on-off.
- Each group can be controlled independently.
- Working temperature: -30 ~ +50°C



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PRODUCT DIAGRAM



Product Name ¹	L	W	H	D(default)
88L-MOD-FC1-01	52mm	39mm	14mm	87mm

Note 1: The dimensions of the modules don't change with the LED Qty or voltage, color.

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TECHNICAL DATA

Electrical data ²:

Product Name	Input Voltage [Vdc]	Base	IC Model	Chip	Dimmable [Y/N]	LED Qty [LED/pcs]	LED Qty [LED/group]
88L-MOD-FC1-01	12	Cable	Ex-2811	SMD5050	Y	6	2

Note 2: Absolute ratings @ 25°C

Optical Characteristics ^{3, 4}:

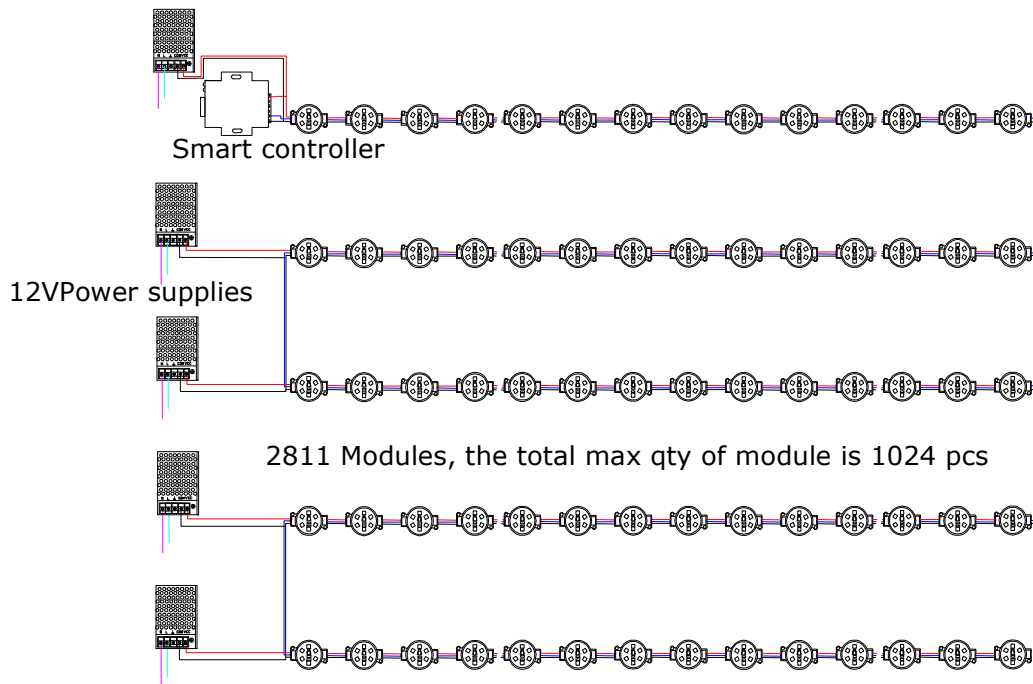
Part number	Color	Max Power [w/m]	Luminous Flux [lm/pcs]	Port	Channel	Beam Angle [°]
88L-MOD-FC1-01	RGB Full Color	1.44	120	3	3	120

Note 3: Absolute ratings @ 25°C

Note 4: Tolerance of measurement of luminous intensity±5%.

PRODUCT INSTALLATION

Electrical diagram and mounting drawing---LED dot <1024.

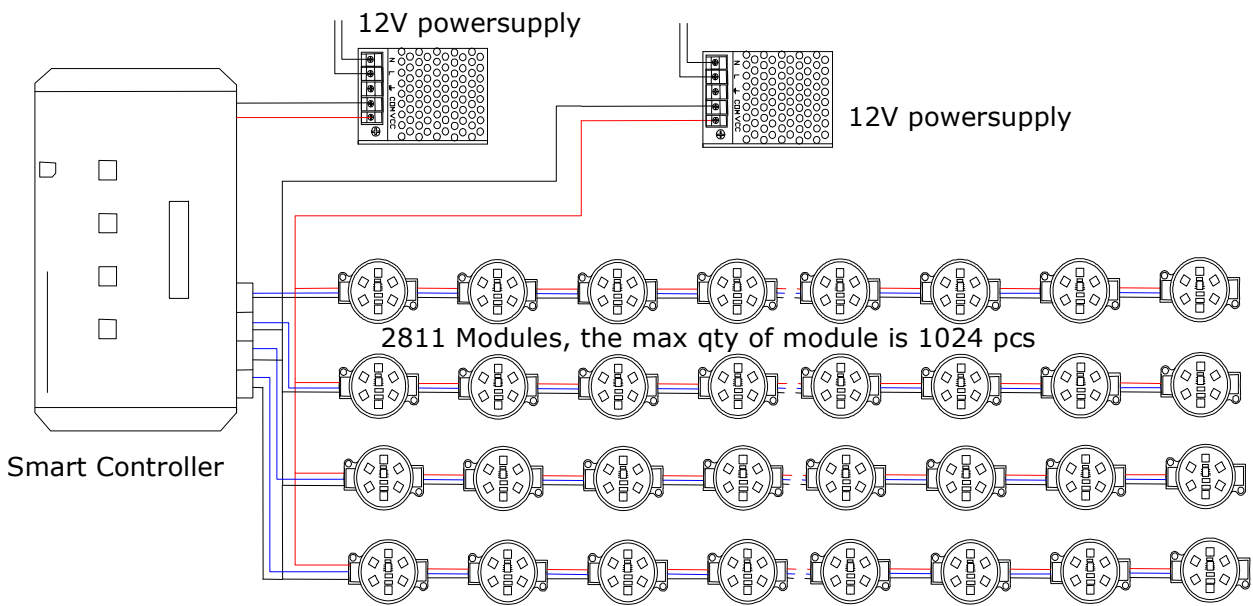


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PRODUCT INSTALLATION

Electrical diagram and mounting drawing---LED dot <2048.

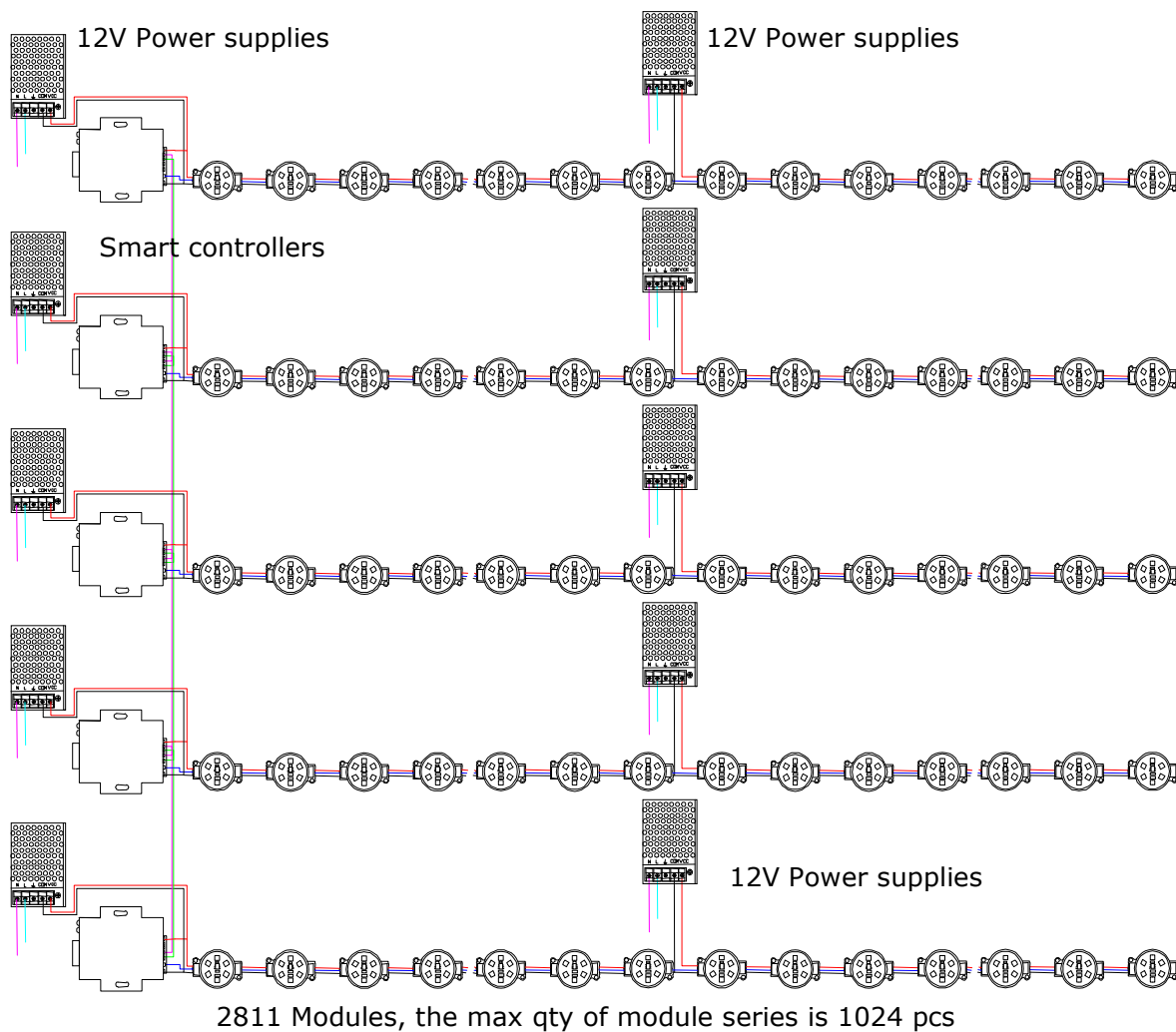


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PRODUCT INSTALLATION

Electrical diagram and mounting drawing---LED dot >2048.



2811 Modules, the max qty of module series is 1024 pcs

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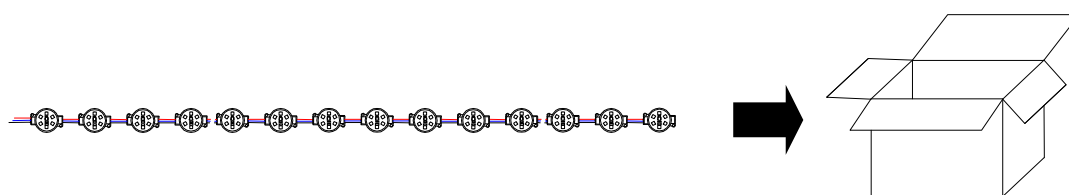
SAFETY

1. **Always** consult a qualified, licensed electrician prior to the installation of this product.
2. **Always** pre-test your strip light assembly by making all connections and connecting the strip to a power supply and ensure that all components are joined properly before they are installed.
3. It is recommended that adequate airflow and heat sink be taken into account in the application and installation of this product. Improper thermal management may lead to premature failure.
4. Exceeding the operating temperature values may damage LED chips by reducing the total lamp life and lumen output, and inversely impact color consistency.
5. Avoid voltage drops by using a dedicated line for each maximum power consumption line.
6. This product should only be cut at "cut points," if it's cut at the wrong place, then some LED will not work.
7. "Voltage drop" is a gradual lessening of power through a wire over a long distance. The farther the light is from the power source, the more voltage drop will occur. Voltage drop becomes a significant factor in any LED light application when the distance between the lights and the power source is greater than 15 feet. Consult a licensed electrician and an online voltage drop calculator to learn what gauge wire will work best for your configuration.
8. The manufacturer rates each power supply for maximum power output at optimum thermal and voltage conditions. As with any power supply, true actual maximum continuous current output depends upon various environmental factors such as ambient temperature, line voltage fluctuations, and orientation that may affect heat dissipation. For optimum performance, make sure the load is between 50% and 80% of the total capacity of the power supply.
9. LED products are continuously being improved upon in ever-shortening manufacturing cycles. LED color temperature (kelvin), lumen output, and product appearance can change from order to order. Please note that variation in color temperature (kelvin) is commonly +/- 250k and brightness (lumens) is +/- 10%.

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PACKING



The default carton dimension is 25×25×25cm

Product Name	Pcs/box	Box dimensions	Gross Weight	Net Weight
88L-MOD-FC1-01	150/Box	25×25×25cm	5.5Kg	3.5Kg

Note 5: the default package information is only for reference.

OTHER 88Light PRODUCTS:

For more information about 88Light products, or to use our online energy saving calculation software please visit our website

www.88light.com

DISCLAIMER:

88Light reserves the right to modify the design of our products as part of the company's program of continuous improvement. 88Light cannot guarantee to match existing installed product for subsequent orders or replace the product exactly to match the product you are replacing in product appearance, color, or brightness. Specifications are subject to change without notice.