

16 MILLION COLOR LED LIGHTING SYSTEM

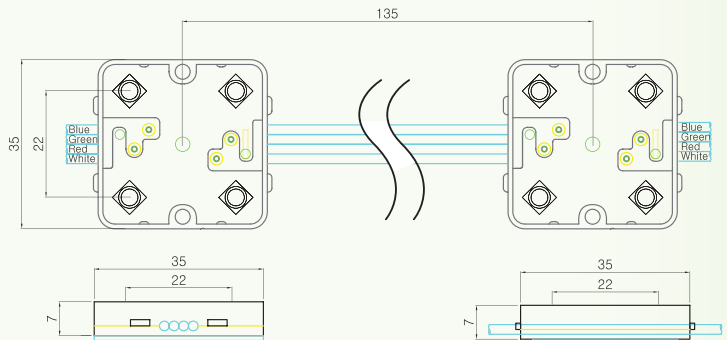


The STAR RGB N04 is a full color RGB LED module which can produce 16 million colors with Samsung LED lamp. Single SMD type lamp has 3 light emitting diode chips, one for red, one for green, and one for blue. This 3 chips in 1 lamps provides smooth mixture of colors, which cannot be achieved with old-fashioned superflux LED lamp. With high speed controlling ability, plenty of applications are available such as façade lighting, interior lighting, and also channel lighting. While maintaining its extreme energy efficiency, it also provides reliable assurance with Samsung LED technology that lighting output remains 70% level out of initial output after using 42,500 hours. Please, let us welcome you to our hassle free lighting system.

- 16 Million full color LED lighting system with sophisticated 3 chips in 1 SMD lamp
- Guaranteed life time up to 42,500 hours with 70% lighting output  
\*24 hour constant load may result less operating hours with lower lighting output. Estimated lifetime is based on normal usage of 10 hours per day.
- IP65 rating for in/outdoor application
- Extremely small and light solution for low-profile channel letters.
- Quality and reliability assured

PHYSICAL

Length : 35mm  
 Width : 35mm  
 Thickness : 7mm  
 Weight : 16g  
 Lamp Pitch : 22 mm (4 LED Lamps)  
 Module Pitch : 135mm



OPTICAL CHARACTERISTICS

Color	Luminous Flux (lm)			Dominant Wave Length & Color Temperature			Viewing Angle
	Min	Typical	Max	Min	Typical	Max	
Red	7		9	617nm		632nm	120
Green	15		19	523nm		537nm	120
Blue	4		5	450nm		465nm	120

\*CRI (Color Rendering Index) for white product types is 70 / \*Spectral width at half of the peak intensity / \*Luminous Flux measuring equipment is CAS140B  
 \*Viewing angle is the off axis angle from lamp centerline where the luminous intensity is half of the peak value / \*CCT 5% tester tolerance  
 \*Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color

### ELECTRICAL CHARACTERISTICS

Current dissipation : 120 mA  
 Power consumption : 1.44 W  
 Operating power : DC 12V  
 Quantity for maximum connection in serial : 30 modules  
 Color controller supported: Voltage controlled color change system

### THERMAL

Cooling : Ambient air  
 Maximum operating temperature : 60°C (140°F)  
 Minimum operating temperature : -25°C (-13°F)  
 Maximum storage temperature : 60°C (140°F)  
 Minimum storage temperature : -30 C (-22 F)

### CONSTRUCTION

LED Lamp : 3-in-1 RGB, 5252  
 Body : ABS  
 PCB : FR-1 fiber glass epoxy resin, single layered  
 Lead wire : 18 AWG  
 Comes with pre-mounted 3M adhesive tape

### ACCESSORY

Controller: Transmit color signals and control drivers up to 255pcs of drivers  
 Driver: Takes color signal from controller and transmit signals to 30 modules of Rainbow C04

### APPLICATIONS

Channel letters - Open & closed cover  
 Reverse halo lighting  
 Border lighting  
 Point-Of-Purchasing signage  
 Art & sculpture and cove lightin  
 Façade lighting

### APPROVAL

EN 55015/A2 : 2009  
 EN 61547/2009  
 EN 62031/2008  
 EN 62471/2006



### FEATURES

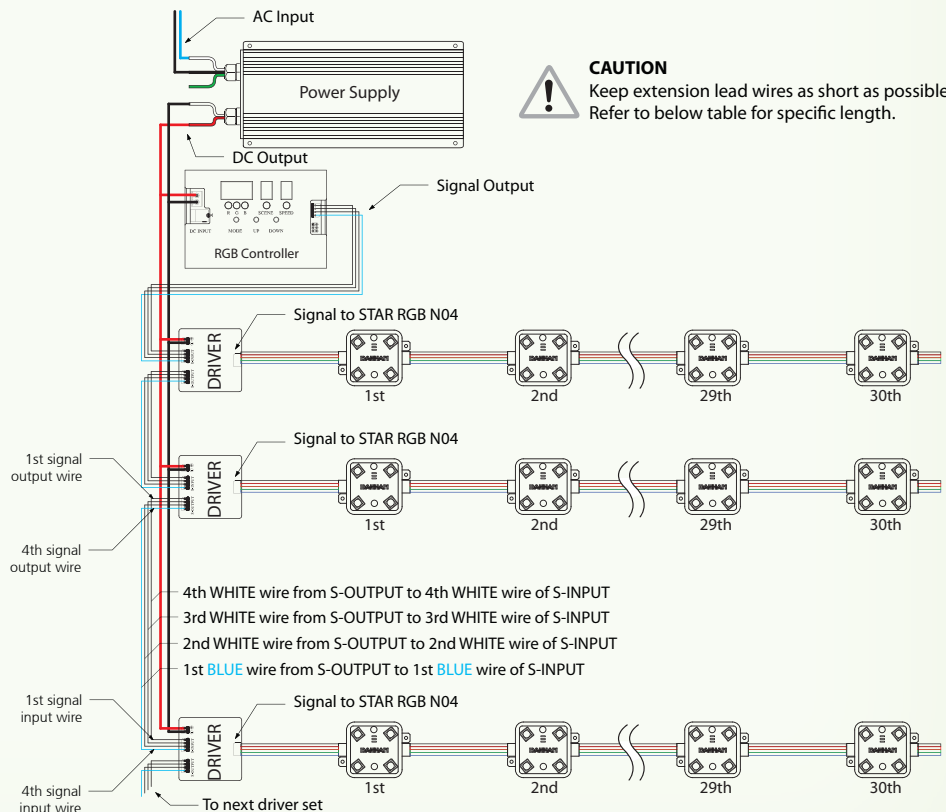


42,500H LIFETIME

IP65

DC12V

### WIRING GUIDE



**CAUTION**  
 Keep extension lead wires as short as possible.  
 Refer to below table for specific length.

Specifications subject to change without notice