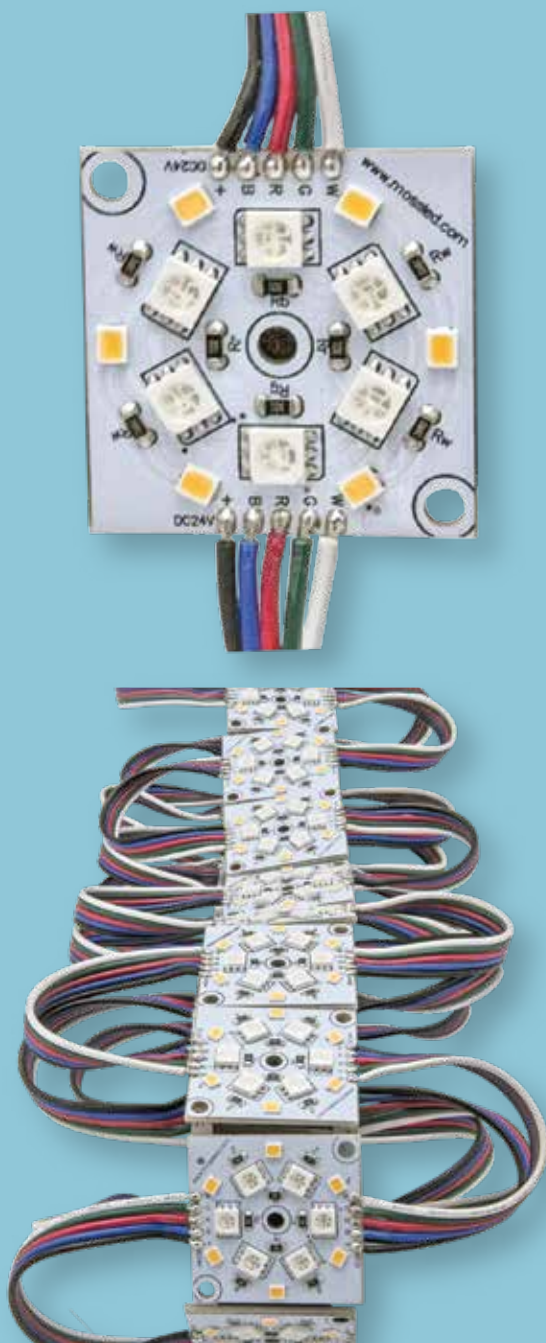




Module 12-LED RGB+W

Hi Intensity 12-LED modules are engineered for use in television, film, residential, and commercial applications where accurate colour reproduction and high brightness are essential. Designed for indoor use, these modules feature an IP43 rating and come pre-applied with industrial-grade 3M VHB5952 adhesive backing for quick and easy installation.

Each module contains super-bright SMD 5060 RGB and SMD 2835 white LEDs, delivering consistent, high-CRI output. Modules are spaced flexibly to allow adjustable distances between them and are powered by 24VDC for low-voltage safety and energy efficiency. To prevent voltage drop and maintain brightness consistency, we recommend a maximum run of 50 modules per power feed.

Key Features:

- High-CRI, Multi-Source LED Design – Features SMD 5060 RGB & SMD 2835 White LEDs for accurate, vibrant colour and white light.
- Easy Installation – Peel-and-stick 3M adhesive backing for secure mounting.
- Indoor-Rated (IP43) – Suitable for dry environments requiring consistent, high-CRI lighting.
- Adjustable Spacing – Standard 30CM or 10CM cable jump between modules for flexible layouts.
- Energy Efficient 24VDC – Low power consumption with maximum brightness.
- Maximum Run Length – Up to 50 modules per power run to prevent line loss.

Applications:

- Signage & Lightboxes – Backlighting for channel letters and illuminated displays.
- Architectural Lighting – Enhancing indoor environments with professional-grade illumination.
- Event & Entertainment Lighting – Ideal for bars, clubs, theatres, and stage productions.
- Decorative & Accent Lighting – Creates dynamic, colour-rich lighting effects.

Stocked in 2700K and 5600K.

Need a custom solution? Contact us today!



TECHNICAL SPECIFICATIONS

Product Type	12-LED RGB+WW Outdoor Module	12-LED RGB+XX Indoor Raw Module
Product Code	W24VMOD50503528D4PRGBW30	RM-I24VRGBWXX50502835-YYCM
CRI	90+	95+
Kelvin	RGB + W (3000k)	RGB + W (2700k or 5600k)
PCB Color	White	White
Current Rating	60mA for RGB, 70mA for Whites	0.12A
Voltage	24 VDC	24 VDC
Wattage	1.824W / Module	2.8 W / Module
CC / CV	Constant Voltage	Constant Voltage
IP Rating	IP67	IP43
Lumens @ Full	TBD	TBD
Lifetime	50,000 hours	50,000 hours
Cable Length	10CM	10CM
Dimensions	56MM X 32MM (including mounting holes)	36MM X 36MM
LED Quantity	6 RGB, 6 Warm White	6 RGB, 6 White
Number of Contacts	5	5
PCB type	FR4 Rigid PCB	FR4 Rigid PCB
LED Type	6 X 5060 RGB : 6 X 2835 White	6 X 5060 RGB : 6 X 2835 White
Operating Temperature	-20 ~ 60C	-20 ~ 60C
Agency Ratings	CE, RoHS, UL	CE, RoHS, UL
Maximum Recommended Length	50 Modules (91.2 Watts Total)	50 Modules (140 Watts Total)
Viewing Angle	120 degree	120 Degree
Adhesive	Mounting Holes / Foam Rubber Adhesive Tape	Mounting Holes / Foam Rubber Adhesive Tape

Module 12-LED RGB+WW+CW SKU ORDERING CODES

RM	I	24	V	RGBW	XX	50502835	-	-	-	YYCM
1	2	3	4	5	6	7	8	9	10	11
Series	IP Rating (IP43)	Operating Voltage	Voltage	Colour Temperature Range	Kelvin	LED Chip Type	PCB Colour	PCB Coating	Connector	Cable Jumps

1 Family Series RM RawMod		2 IP Rating I IP41 - Indoor Use Only O IP65 - Weatherproof W IP68 - Waterproof		3 Voltage 24V 24VDC (Standard) 12V 12VDC (Optional) 5-36V Custom Order		4 Voltage Type V Constant Voltage (Standard) C Constant Current (Optional)		5 Colour Temperature Range RGBWCW Red, Green, Blue, White, White			
6 Colour Temperature 27 2700k 56 5600k XX (Custom CCT Available)		7 LEDs Chip Type 50502835 5050 + 2835		8 PCB Colour Options - White (Standard - Not Shown) B Black (Optional) G Green (Optional) R Red (Optional) Y Yellow (Optional) L Blue (Optional)		9 PCB Coating - No Coating (Standard) GS ENIG Gold Series		10 Connector - No Connector (Standard) 5PM 5-Pin Male Connector		11 Cable Jumps 10CM 10 Centimeter (Standard) 30CM 30 Centimeter (Optional) XXXX Custom	

TECHNICAL DRAWING

I24VRAWMOD50502835RGBWXX-YY

