



4 Channel Power Repeater

ACL-PR-4CH-5A



Overview

The 4 Channel Power Repeater is essential for enhancing LED lighting systems, amplifying the Pulse Width Modulation (PWM) signal for consistent brightness and color across multiple LED strips or fixtures. With a load capacity of 5A per channel (5A combined), it ensures synchronized control even in high-power setups.



Where to Buy

Perfect for large installations, this repeater extends the reach of LED controllers, preventing signal loss or degradation. Featuring 3kV isolation and high-speed optocouplers, it guarantees stable, reliable operation for optimized LED performance across complex networks.

Features

- **PWM Signal Amplification:** Boosts the PWM (Pulse Width Modulation) RGBW signal for consistent and synchronized LED control across multiple strips or fixtures.
- **High Load Capacity:** Supports up to 5A per channel, with a combined total of 5A across all channels, ensuring compatibility with high-power LED setups.
- **3kV Isolation:** Features 3kV isolation with high-speed optocouplers for enhanced safety and protection against electrical surges.
- **Extended Reach:** Ideal for extending the reach of LED controllers in large or complex installations, ensuring stable and reliable operation across extensive LED networks.
- **Signal Integrity:** Prevents signal loss or degradation, maintaining uniform brightness and color consistency in high-power LED setups.
- **Multiple Channel Support:** Supports multiple RGBW channels, allowing for flexible and scalable lighting setups.
- **Compatibility:** Compatible with a wide range of LED controllers and lighting systems, providing flexibility in various installations.
- **Reliable Performance:** Designed for long-term, reliable operation in demanding environments.
- **Compact Design:** Designed for efficient space utilization in various installation environments.
- **Versatile Application:** Suitable for a wide range of applications, from architectural lighting to stage and event lighting.
- **LED Power Indicator:** Provides visual feedback for power status, aiding in monitoring and troubleshooting.
- **Wide Operating Temperature Range:** Designed to function in harsh environments with an operating temperature range from -20°C to +55°C.

Specifications

Operating Temperature.....	-20°C ~ +55°C
Protection Class.....	IP65 Rated
Voltage.....	DC 12V / 24V Class 2 Power Supply
Max Power.....	60W with 12V / 100W with 24V
Signal In.....	PWM RGBW input
Signal Out.....	PWM RGBW output
Photoelectricity Isolation.....	3KV
Dimensions (LxWxH).....	3.8" x 2.48" x 0.78"
Certifications.....	cULus Certification
Packaging.....	6" x 4" x 1.5" Box
Warranty.....	5 years

Please Note: Minimum 18 guage wires are recommended for long run wires connecting RGB modules.

Compatible Power Supplies

	Power Supply Part Number	Output Watts	Input Voltage	Output Volts DC
12V	ACV125-120-277V	60W	120-277	12.0
	ACV2125-120-277V	120W (60 + 60)	120-277	12.0
	ACV3125-120-277V	180W (60 + 60 + 60)	120-277	12.0
	CVW125-120-277V**	60W	120-277	12.0
	CVW2125-120-277V**	120W (60 + 60)	120-277	12.0
	CVW3125-120-277V**	180W (60 + 60 + 60)	120-277	12.0
24V	CV244-120-277	96W	120-277	24.0
	CVW244-120-277**	96W	120-277	24.0
	CVW2244-120-277**	192W (96 + 96)	120-277	24.0
	CVW3244-120-277**	288W (96 + 96 + 96)	120-277	24.0

