



ARGBW 8A SPI Controller

Install Instructions

For Your Safety:

- Disconnect power source before starting electrical work
- Read all safety notes before installing the product
- Verify that the power supply complies to the voltage limits as shown in the PSG

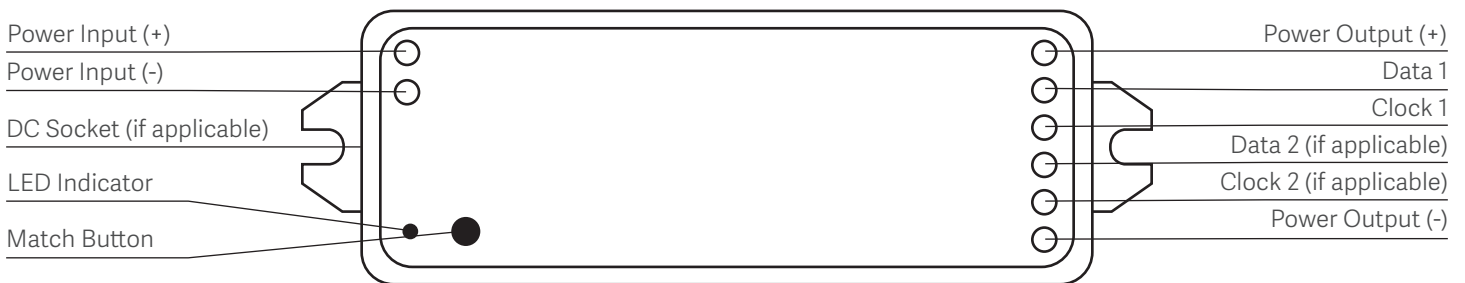
General Precautions:

- The products should not be stacked.
- Avoid installing the product within 6" of power supply.
- Do not install behind or within a metal object.

SPI Controller Installation Precautions:

- If the SPI LED strip is a single-wire control method, the DATA and CLOCK data outputs of the controller are identical, and one controller can connect 4 LED Strips.
- When the load of the light strip exceeds 8A, the light strip needs to be powered separately of the controller by another compatible power supply. In this configuration, the light strip, power supply, and controller need to share the same Ground(-) connection.
- The output power of the power supply needs to be at least 1.2x that of the light strip's load, or the light make flicker.
- The voltage of the power supply must match the voltage of the light strip.
- When wiring the DATA and CLOCK outputs, the wires must be less than 32' [10m] long to avoid signal interference. If the wire length exceeds that length, a SPI Signal Amplifier must be used.
- The SPI DATA and CLOCK outputs must be separated from strong power (100-240 VAC) wires to avoid signal interference.
- Each signal output (DATA, CLOCK) can only be connected to one set of light strips.
- If the light strip is always on and does not respond to controls, it may be that the DATA or CLOCK output is open or that the control chip of the light strip is damaged.

General Diagram



Compatible LED Control Chips

TM1809	CS2903	SM16703P	TM1814B	D705	P9813	SM16825
TM1804	UCS2909	TM1803	SK6812	UCS6909	SK9822	SM16714
TM1812	UCS2912	TM1829	WS2813	UCS6912	TM1914A	UCS2603
UCS1903	WS2811	TLS3001	WS2814	LPD8803	GS8206	UCS5603
UCS1909	WS2812	TLS3002	UCS8904B	LPD8806	GS8208	SM16714D
UCS1912	WS2813	GW6205	LPD6803	WS2801	UCS2904	UCS7604
SK6813U	WS2815	MBI6120	LPD1101	WS2803	SM16804	UCS7804

Factory Reset

Factory Default Parameters: 300 Pixel Strip Length, TM1809 chip type, RGB color sequence.

Long press match key for 15s to restore default settings with RGB light type, or 20s to restore settings with isolated RGB and W modes.

Vista reserves the right to modify this specification without prior notice.



Match RF Remote Control

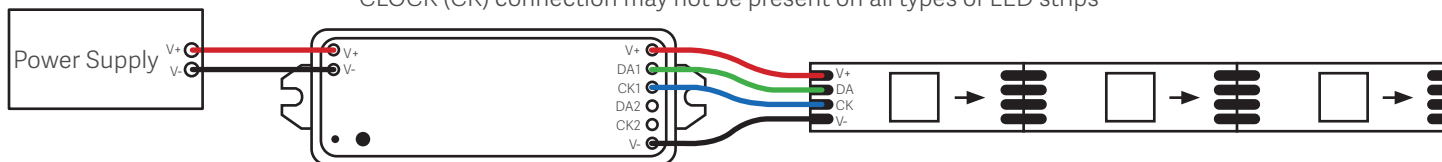
Short press the Match button, immediately press ON/OFF button of the Remote. The LED indicator will flash if the match is successful.

Press and hold Match button for 10 seconds to delete all matched remotes. The LED indicator will flash if the matched remotes were deleted.

Wiring Diagram

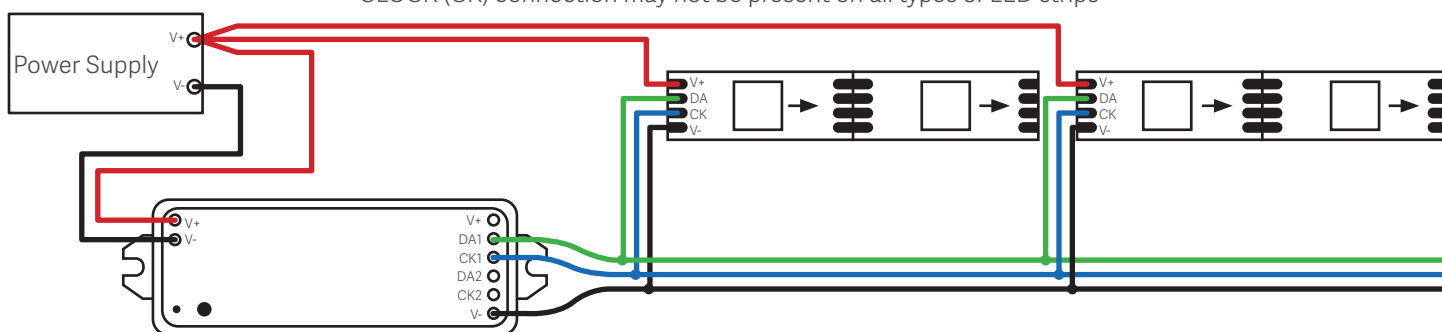
Wiring Controller to SPI Digital Lights

CLOCK (CK) connection may not be present on all types of LED strips

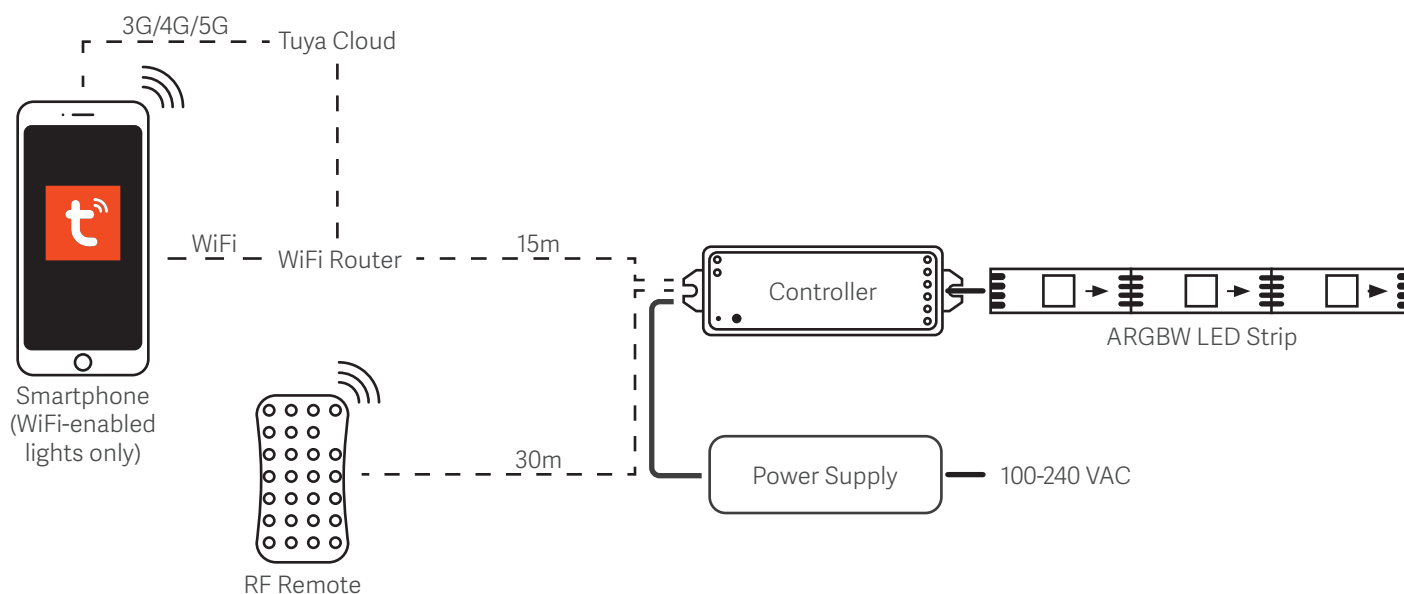


Wiring Controller to Multiple SPI Digital Lights (LED Strip Load over 8A)

CLOCK (CK) connection may not be present on all types of LED strips



System Wiring



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