



# EPIC RS232 PRO



## Product Introduction:

The EP-RS232-PRO LED Controller is a professional and intelligent system to control common anode LED lighting or incandescent light bulbs via RS232 serial commands. The EP-RS232-PRO provides channels to create light scenes. The controller can also operate in a standalone mode which includes pre-programmed light sequences. This LED controller is ideal used for flexible ThinGlow™ LED strips. The EP-RS232-PRO LED Controller also operate independantly or integrated into a home automation system.

## Key Features

- 4 channels with independent control
- Suitable for common anode RGB LED strips, LEDs and incandescent bulbs.
- Stand alone mode with 8 preprogrammed light sequences.
- Custom user-editable scenes via RS232.
- Wide-range of speed adjustment.
- Wide-range of external input accessories such iPad, relays, and wireless transmitter.
- Complete lists of color and scene serial commands to save programming time.
- Memory for last selected sequence.
- Small form factor (AI sending sizes).
- PWM of 480 Hz to deliver smooth dimming and a wide range of color spectrum of LED light fixtures.
- Reverse polarity protection.
- Work independantly or integrated into a home automation system.
- Proprietary power conditioning design to work with magnetic or electronic transformers.

## Specifications

Power Requirement	External power supply - (power supply sold seperately)
Operating Voltage:	Input: 8-24V DC Output: 8-24V DC (depends on input)
Channel Current:	3Amp@12V DC Per Channel 6A@24V DC Per Channel
UL Number:	E359996



### Specifications (con't)

LED intensity control:	255 intensity levels/channel
Communication Interface:	Serial RS232 9600 baud, 8 data bits, 1 stop bit, no parity, no handshaking, and no flow control
Dimension:	4" x 5" x 1.75" in
Weight:	2.5 lbs

### Control & Indicators

Power:	Blue LED on board
RGB output:	RGB LED on board
White Output:	White LED on board

### Enclosure

Anodized aluminum case

### Connectors

Screw terminal up to 10Awg conductor diameter.

### Recommended Wiring

18 Awg	up to 5 Amp total
16 Awg	up to 10 Amp total
*12 Awg	up to 20 Amp total
*10 Awg	up to 40 Amp total

\*May use distribution board. See distribution page.

### AMPERAGE

Color/Channel	12V	Wattage	24V	Wattage
Red	3Amp	36W	6Amp	72W
Green	3Amp	36W	6Amp	72W
Blue	3Amp	36W	6Amp	72W
White	3Amp	36W	6Amp	72W
<b>Total</b>	<b>12Amp</b>	<b>144W</b>	<b>56Amp</b>	<b>288W</b>



Epic Sky Technology - Epic Pro LED Controller (9600 8 N 1)						
Command	Action	Return	Notes	R	G	B
redYYY	Red to YYY%	Red: YYY%		YYY		
greenYYY	Green to YYY%	Green: YYY%			YYY	
blueYYY	Blue to YYY%	Blue YYY%				YYY
whiteYYY	White to YYY%	White YYY%				
wht1YYY	White to YYY%	White 1: YYY%				
wht2YYY	Blue to YYY%	White 2: YYY%				YYY
wht3YYY	Green to YYY%	White 3: YYY%			YYY	
wht4YYY	Red to YYY%	White 4: YYY%		YYY		
allred	R on, G & B off	All Red		100%	0%	0%
allgreen	G on, R & B off	All Green		0%	100%	0%
allblue	B on, R & G off	All Blue		0%	0%	100%
cycle	Start Cycle	Cycle Started!	Color cycle			
magenta	Magenta	Magenta		100%	0%	100%
cyan	Cyan	Cyan		0%	100%	100%
gold	Gold	Gold		100%	100%	0%
rgbwhite	RGB White	RGB White		100%	100%	100%
orange	Orange	Orange		100%	14%	0%
ltblue	Light Blue	Light Blue		0%	75%	100%
ltgreen	Light Green	Light Green		0%	255%	10%
violet	Violet	Violet		65%	0%	100%
pink	Pink	Pink		100%	0%	20%
rgbww	Warm White	Warm White		95%	5%	45%
sunset	Sunset	Sunset	Show - orange, gold, white			
ocean	Tranquility	Tranquility	Show - blue, ltblue, ltgreen			
sky	Morning Sky	Morning Sky	Show - ltblue, white			
love	Romance	Romance	Show - red, pink			
royal	Royal	Royal	Show - violet, pink			
usa	USA	USA	Show - red, white, blue			
twilight	Twilight	Twilight	Show - violet, blue			
val	Valentines Day	Valentine's Day	Show - pink, violet, red			
east	Easter	Easter	Show - pink, gold, cyan			
atm	Autumn	Autumn	Show - orange, violet			
xmas	Christmas	Christmas	Show, red, green			
party	Mardi Gras	Mardi Gras	Show - all cycle			
techno	Cool Cabaret	Cool Cabaret	Show - all cycle			
rainbow	Rainbow	Rainbow	Show - all cycle			
rateYY	Rate to YY	Rate: YY				
pause	Cycle Pause	Cycle Paused.				
stayYY	Stay Time	Stay: YY				
rampYY	Ramp time	Ramp: YY				
bright	Brighten RGB	Brighten: <levels>	Brightens all RGB levels by 10%			
dim	Dim RGB	Dim: <levels>	dims all RGB levels by 10%			
alloff	LED's off	All off				
globakoff	Global Off	Global Off				
help	print help	<help>				

## Warranty

AIT warrants its products to be free from defects in material and workmanship. The exclusive remedy for this warranty is AIT factory replacement of any part or parts of such product which shall within 12 months after delivery to the purchaser be returned to AIT factory with all shipping charges prepaid and which AIT determines to its satisfaction to be defective. This warranty shall not extend to defects in assembly by other than AIT or to any article which has been repaired or altered by other than AIT or to any article which AIT determined has been subjected to improper use. AIT assumes no responsibility for the design characteristics of any unit or its operation in any circuit or assembly. This warranty is in lieu of all other warranties, express or implied; all other liabilities or obligations on the part of AIT, including consequential damages, are hereby expressly excluded.

Note: Carefully check the control for shipping damage. Report any damage to the carrier immediately. Do not attempt to operate the drive if visible damage is evident to either the circuit or to the electronic components.

All information contained in the manual is intended to be correct, however information and data in this manual are subject to change without notice. AIT makes no warranty of any kind with regards to this information or data. Further, AIT is not responsible for any omissions or errors or consequential damage caused by the user of the product. AIT reserves the right to make manufacturing changes which may not be included in the manual.

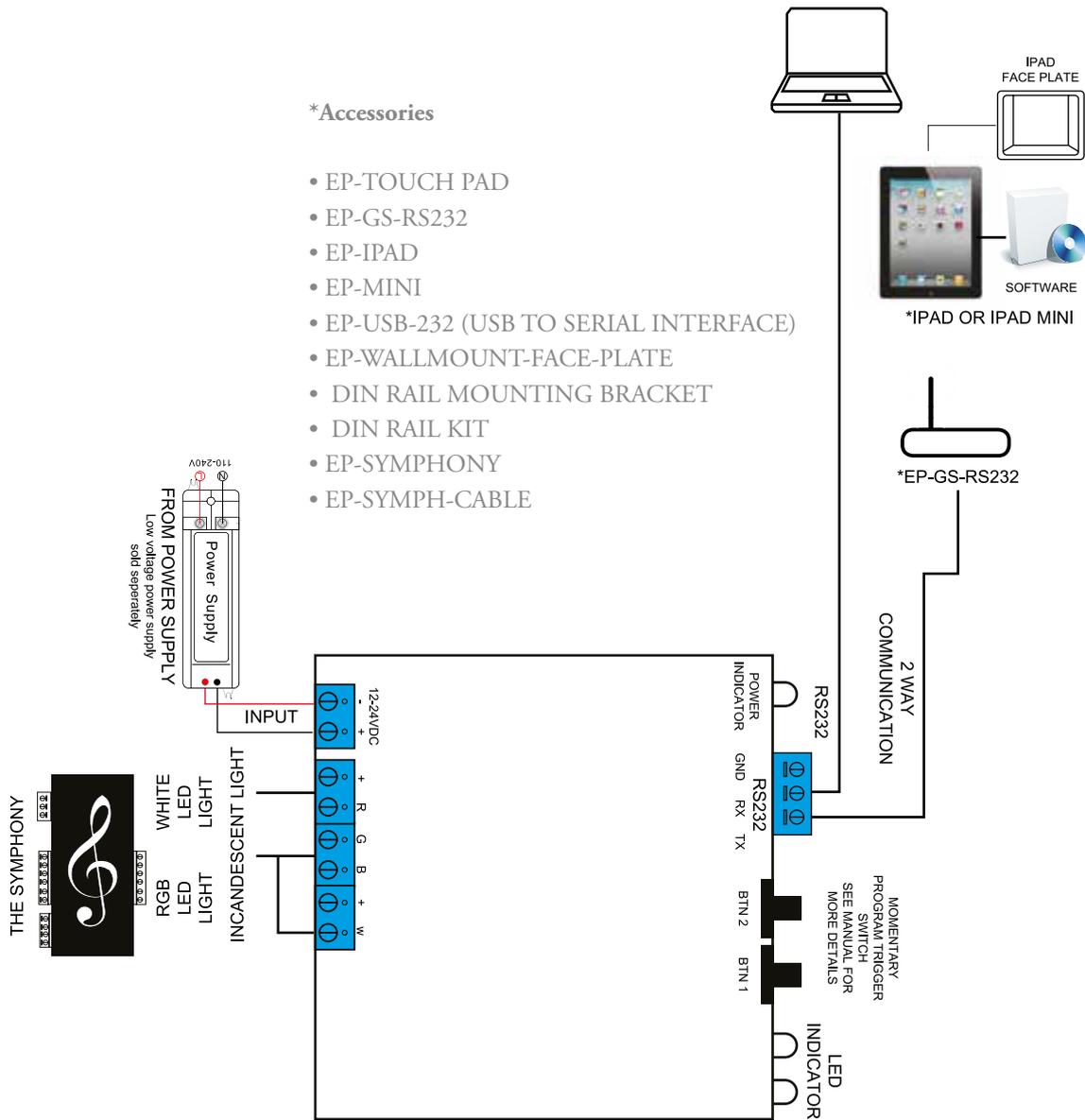
## Warning

Improper installation or operation of this controller may cause injury to personnel or control failure. The control must be installed in accordance with local, state, and national safety codes. Make certain that the power supply is disconnected before attempting to service or remove any components. The power disconnect point is out of sight. Lock it in disconnected position and tag to prevent unexpected application of power. Only a qualified electrician or service personnel should perform any electrical troubleshooting or maintenance.

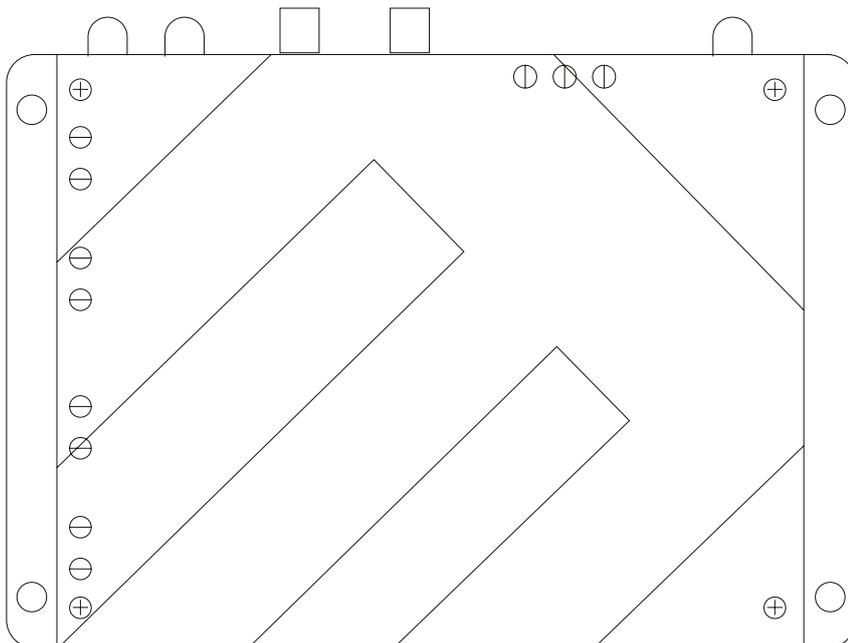
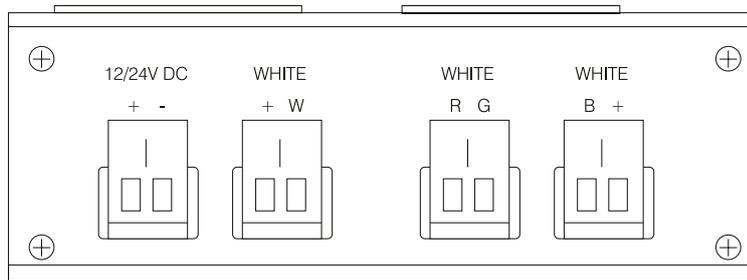
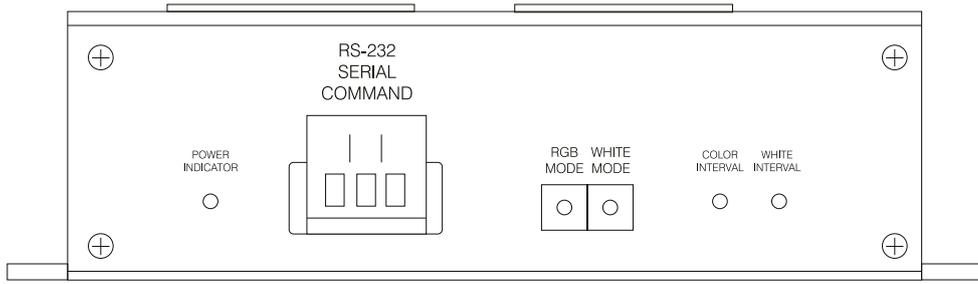
# EP-RS232-PRO OVERVIEW

**\*Accessories**

- EP-TOUCH PAD
- EP-GS-RS232
- EP-IPAD
- EP-MINI
- EP-USB-232 (USB TO SERIAL INTERFACE)
- EP-WALLMOUNT-FACE-PLATE
- DIN RAIL MOUNTING BRACKET
- DIN RAIL KIT
- EP-SYMPHONY
- EP-SYMPH-CABLE



DESIGNED AND MANUFACTURED IN THE USA  
ALL SPECIFICATIONS SUBJECT TO CHANGE



# EP-RS232-PRO

## OVERVIEW

## WIRING OPTION

