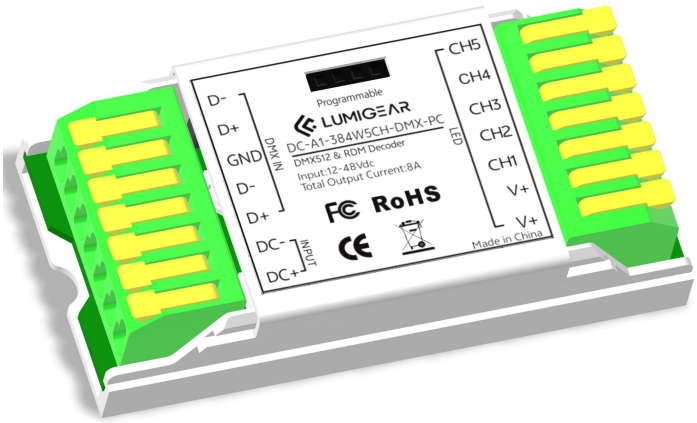
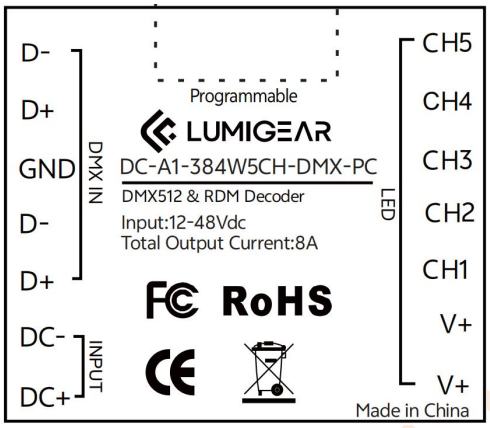
DC-A1-384W5CH-DMX-PC

384w 12-48V DMX RDM decoder





Features & Benefits

- Compact modular design with aluminum sheet metal case
- Silicon potted for good thermal performance
- DMX512 RDM decoder, RDM function can realize intercommunication between DMX master and decoder, for example, you can set DMX decoder's address by DMX master console.
- Total 5 PWM output channels, common anode. DMX channel quantity from 1CH~5CH settable
- Galvanic isolation
- Operating temperature: -40℃~+50℃

Programmable Feature:

- Work mode: Master and Decoder mode
- DMX Start Address
- DMX Mode : 8bit/16bit
- DMX Device Label
- Channel output: Enable/Disable
- Dimming curve gamma value from 0.1 to 9.9 settable
- Output PWM frequency from 500HZ ~ 35K HZ settable
- DMX address mapping
- Default brightness in no-signal mode
- Scene mode
- OTP point

RDM Discovery Indication

When using RDM to discover the device, the digital display will flash and the connected lights will also flash at the same frequency to indicate. Once the display stops flashing, the connected light also stops flashing

Safety & Warnings

DO NOT install with power applied to device

Model List

Model Name	Rated Input Voltage	Max Output Power(Total)	Output Current /Channel	Output Current /Total	Dimension
DC-A1-384W5CH-DMX-PC	12-48VDC	384W max.	8A	8A	65*31*15.2 mm

www.lumigear.com
sales@lumigear.com

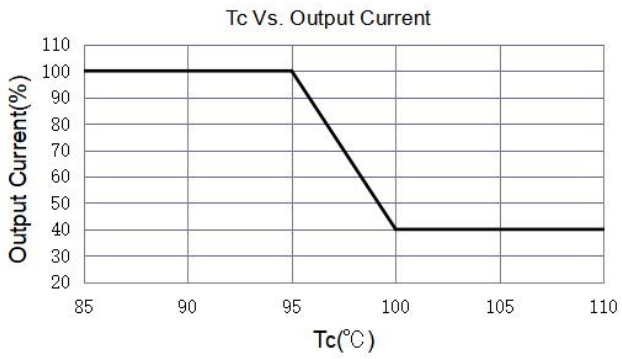
Programming

User can program the driver via programming port.

Programming software	"LUMIGEAR Programming Tool"	
Programming tool	"Lumigear tool box"	
NO.	Item	Default Setting
1	Work mode: Master and Decoder mode	Decoder mode
2	DMX Start Address	TBD
3	PWM output resolution ratio 8bit , 16bit settable	16bit
4	DMX Device Label	TBD
5	Channel output: Enable/Disable	Enable
6	Dimming Curve gamma value from 0.1 to 9.9 settable	linear
7	Output PWM frequency from 500HZ ~ 35K HZ settable	20K Hz
8	DMX address mapping	TBD
9	Default brightness in no-signal mode	50%
10	Fade in and fade out time	10mS
11	OTP point	See "Protection" section
Programming Interface	PGT-TPC-TPAC-A	
Programming Cables	PGT-USB-M4P2	

Protection

Over Temp. Protection	T_{OTP}	Programmable Current decrease linearly when hotspot greater than T_{OTP}, please see OTP curve		95		℃
Short Circuit Protection	The unit will recover automatically after fault conditions is removed.					
Output Reverse Polarity	Will not damage the LED driver but may damage the LED load.					



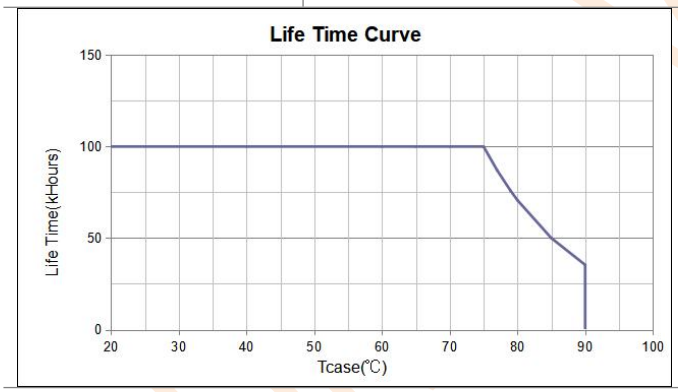
www.lumigear.com
sales@lumigear.com

Environment

Storage Temperature	$T_{Storage}$	Humidity: 5% RH to 95% RH	-40	-	+75	℃
Ambient Operating Temperature	T_a		-40	-	+50	℃
Max. Case Temperature	T_c	Hot spot on case			90	℃
Operating Relative Humidity	H_a	Non-Condensing	10		90	%
Acoustic Noise		Measured from 1 meter, at 100% and min light output.			24	dBA
Cooling	Convection Cooling					
IP environmental rating	IP20					
Environmental Rating	Dry and damp UL approved					

Others

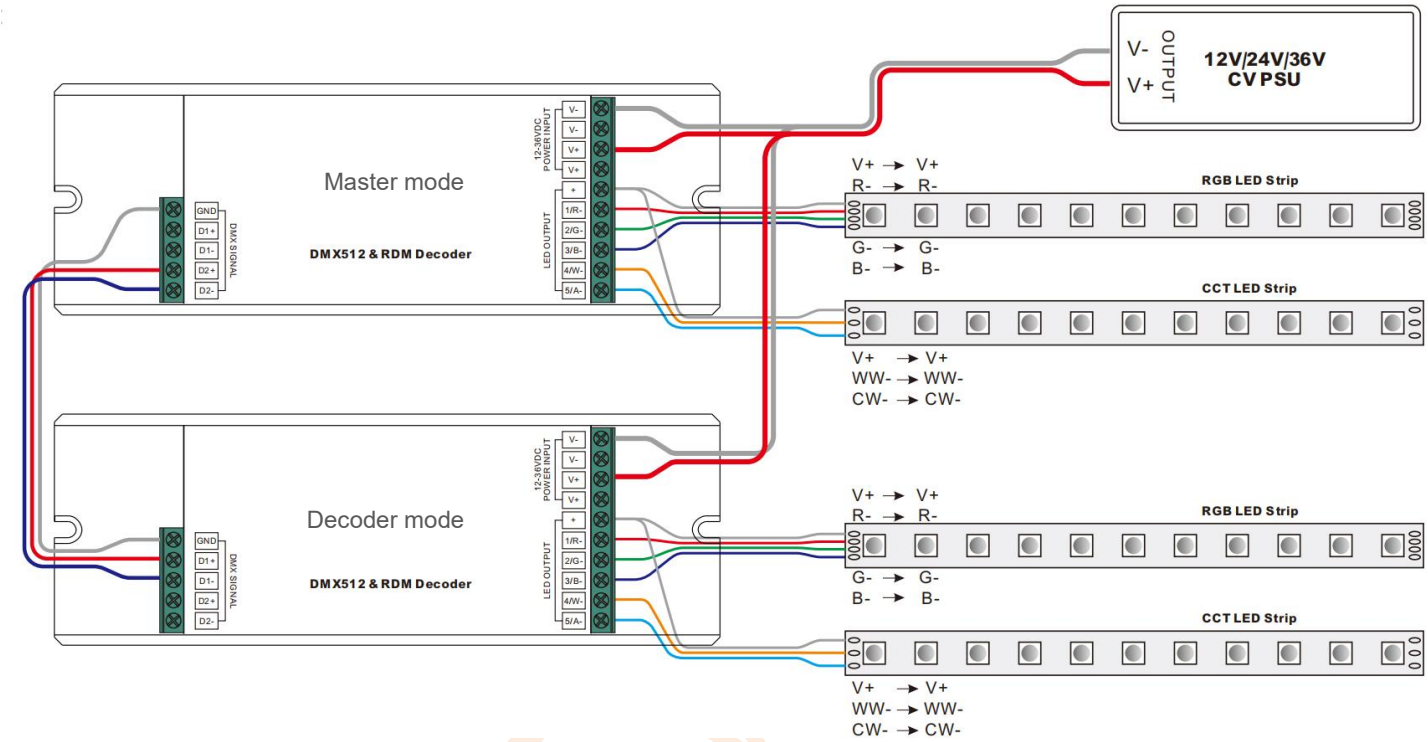
Life Time	T_{Life}	Full Load, 70℃ case temperature,	50			kHrs
MTBF	T_{MTBF}	Full Load, 25℃ ambient temperature	200			kHrs
Net Weight	W_{NET}			TBD		g
Warranty	5 Years Warranty at T_c ≤70℃					
Isolation	Input - Output: Non-isolated Input / Output- Control: 2500Vac					



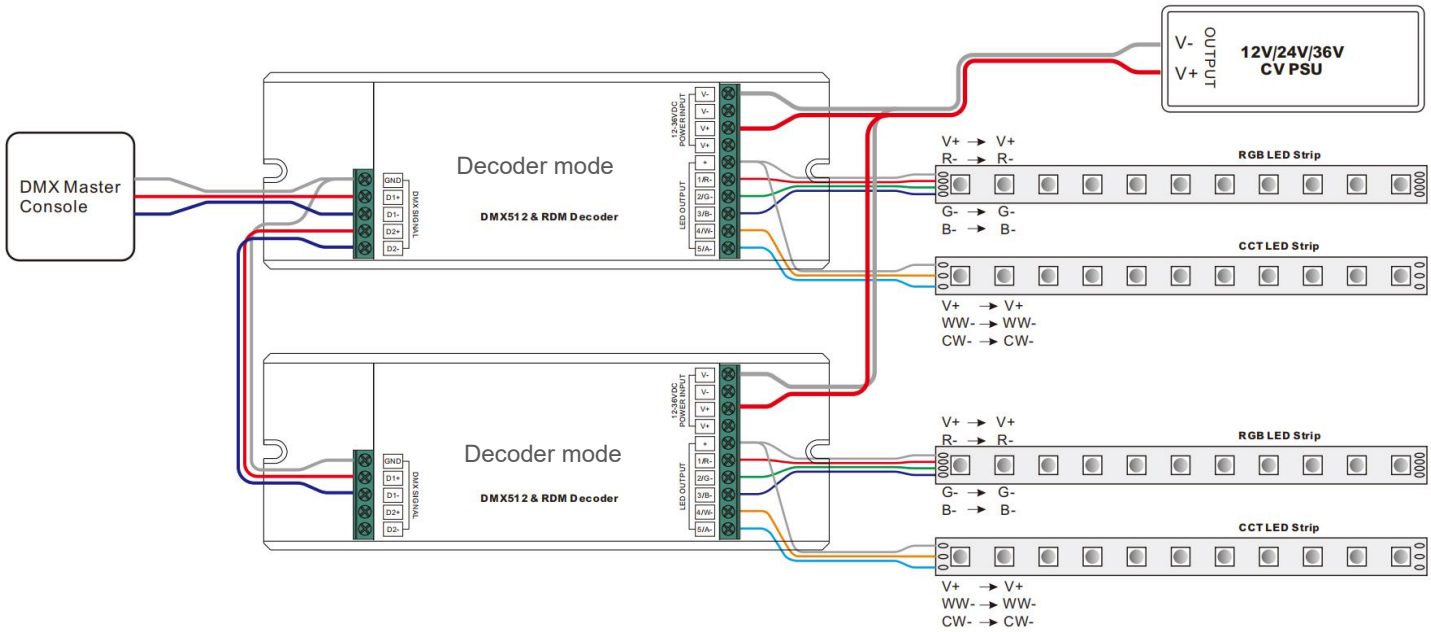
www.lumigear.com
sales@lumigear.com

Wiring Diagram

Work as Master mode:



Work as Decoder mode:



www.lumigear.com
sales@lumigear.com

Mechanical Drawing:

Dimensions(Unit:mm)

Default tolerance:±1mm