SPECIFICATION:

MS456UB Ver 8	Dimension:125MM(L)X30MM(W)X15MM(H)

MS456UB-V8 is originally designed to drive our UB, XB and SB series LED upgrade kits. MS456UB also compatible with LCD screen from 12.1" to 24" that originally equipped with its manufacturer's LED strip. MS456UB-V8 can drive LED strip up to 55V DC (20Watt)

Pin Out:
By Default. The pin out on CN1 is P1/P2/=VIN, P3/P5=GND, P4=ADJ/PWM, P5=ENA
Option Pin Out:
On CN1 by change few jumpers setting and it can be re-configured to:
P1/P2=VIN, P3=ENA, P4=ADJ/PWM, P5/P6=GND
PWM:
By default, MS456UB-V8 is set to Analog control (0~3.5V DC, 0V =Max).
It also can be re-configured to PWM control. Shorted JP4 and remove R7. That is it!

Input Pin Assignment:
Default Pin Assignment: (Shorted JP5, Shorted JP6)

PIN NO	SYMBOL	DESCRIPTION
1.2	VIN	POWER SUPPLY: 10.5-24V DC
6	ENA	ENABLED & DISABLED CONTROL: 3.0V ON
4	ADJ/PWM	Analog: 0-3.5V, 0V=MAX. PWM: 250Hz
3,5	GND	POWER SUPPLY GROUND

Optional Pin Assignment: (Shorted JP1 & JP3 and Remove shorted on JP5 and JP6)

PIN NO	SYMBOL	DESCRIPTION
1.2	VIN	POWER SUPPLY: 10.5-24V DC
3	ENA	ENABLED & DISABLED CONTROL: 3.0V ON
4	ADJ/PWM	Analog: 0-3.5V, 0V=MAX. PWM: 250Hz
5,6	GND	POWER SUPPLY GROUND

Output Pin Assignment:
CN2 and CN3

PIN	SYMBOL	FUNCTION
1	Red	POWER SUPPLY OUTPUT
2	LV	POWER SUPPLY GROUND
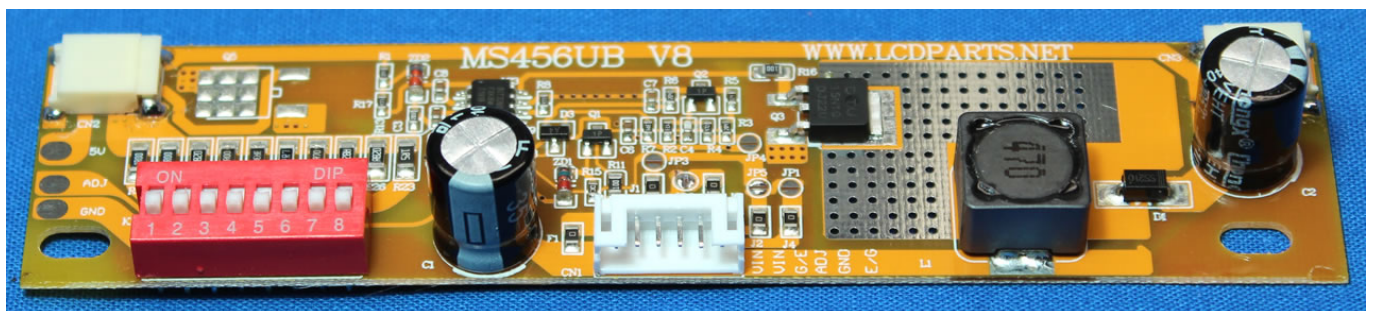
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How to connect

There is a 6 pin connectors on MS456UB (CN1). Pin outs are available on solder side.

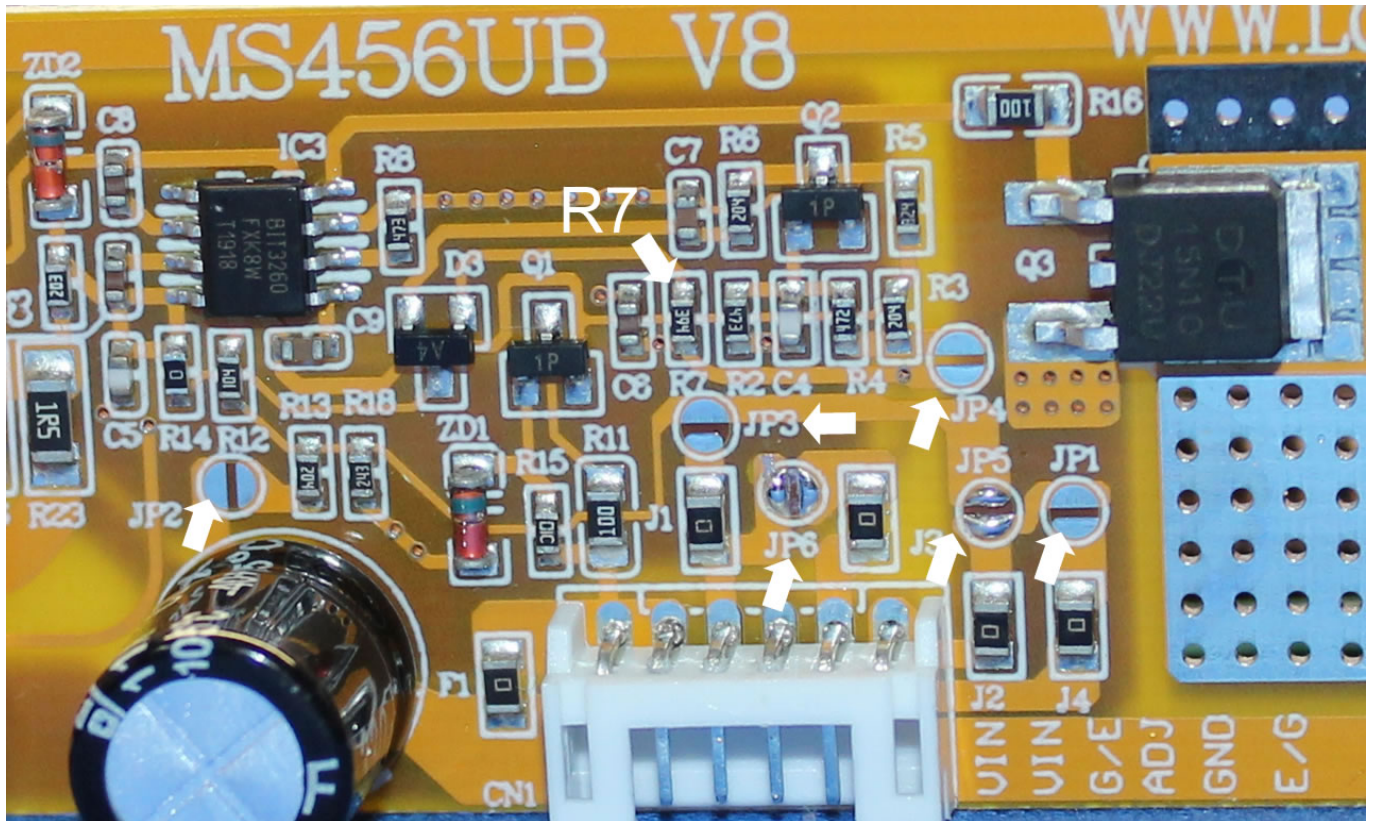**Default Pin out: - Shorted JP5 and JP6**
Pin1/Pin2=VIN (+12V ~ 24V DC). P3/P5=GND (Power Ground). P4=ADJ/PWM, P6=ENA (On/Off).
You will find all these DC voltage from your existing inverter wire harness and apply to MS456UB

Optional Pin out: - Shorted JP1 and JP3. Remove JP5 and JP6
P1/P2=VIN. P3=ENA, P4=ADJ/PWM, P5/P6=GND

PWM Control – Shorted JP4 and Remove R7

Disable ENA - **Shorted JP2**

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MS456UB Ver 8	Dimension: 125MM(L)X30MM(W)X15MM(H)

External Brightness Control – Analog Control

By adding Q5 (a 5V DC regulator) and a 10k variable resistor (Pot). Brightness level can be adjusted externally as shown on the photo below:
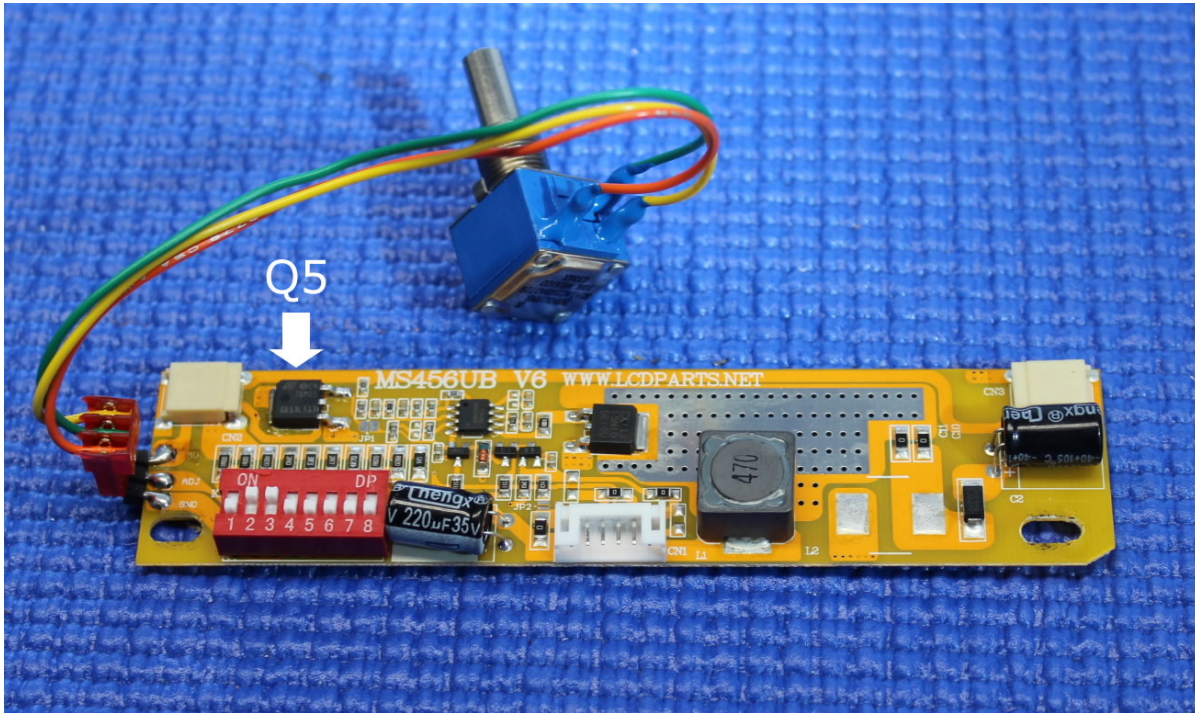
Note: When using an external brightness control, no connection on pin 4 (ADJ)

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