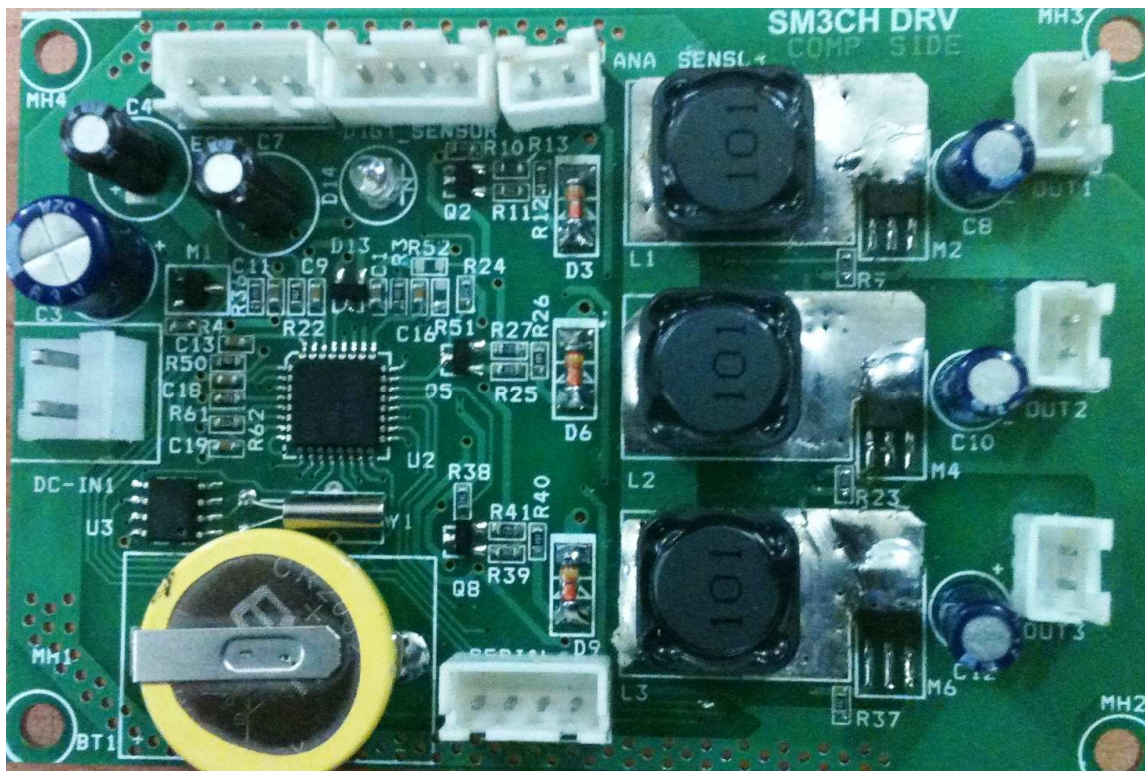


# SM 10-45 WATT LED LIGHT BOARD (V1.0)

## TOP VIEW



## REVISION HISTORY

Name	Date	Reason for changes	Version
RENESAS 3-CH LED DRIVER	25/01/2012	First version released	1.0

## INTRODUCTION

The R8C/2K is based on the r8c CPU core. Maximum operating frequency is 20 MHz. A flash memory version is available. Internal flash memory is programmable on a single power source.

- ❖ 8-Bit Multifunction Timer With 8-Bit Prescaler (Timer Ra And Rb): 2 Channels
- ❖ Input Capture/Output Compare Timer (Timer Rc, Rd): 16-Bit X 3 Channels
- ❖ Lin module: 1 channel (timer ra, uart0)
- ❖ 10-bit a/d converter: 9 channels
- ❖ Watchdog timer
- ❖ Voltage detection circuit
- ❖ Power-on reset circuit
- ❖ I/o ports: 25 (incl. Led drive ports)

## ❖ FEATURES

- 3 Independent Current Sinks Up To 0.7A Rated 25-40 V
- 3 V to 5 V logic supply
- input voltage, 12 VDC
- Short circuit protection
- PWM Dimming controlled by RTC, Analog Sensor & Digital Sensor

## ❖ POWER SUPPLY SECTION

- Input Voltage: 12 VDC
- Output power: 25-40V/10 - 45Watt

## ❖ APPLICATION

- LED Signs and Displays.
- RGB Driver. LCD Backlight
- Multi-color LED, Architectural Lighting.