

# LED Driver for High Contrast Full LCD Cluster

Under  
Development

ROHM  
SEMICONDUCTOR

## Local Dimming LCD Back Light LED Driver

BD12801MUF-M

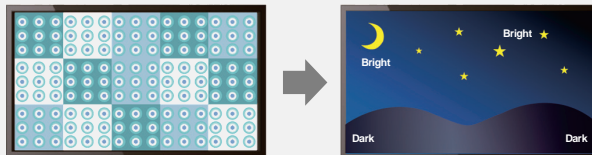
### Features

- 16ch Constant Current Driver
- LED Output Max. Current : 130 mA/ch
- 13bit Local PWM dimming
- 8bit Local DC dimming
- Protection Circuits  
(LED OPEN / LED SHORT etc.)
- Thermal Warning Function
- Error Flag output pin × 1
- Error status communication

### Applications

- Full LCD Cluster
- Car Navigation System
- Head Up Display

### About Local Dimming



To split multiple backlighting area and control brightness in each area

### Example of Adoption to Automotive



In the dark area a better performance can be achieved by switching OFF the LEDs.

Each Ch of the LED driver are individually turned ON and OFF by SPI control.  
Planning multi output LED driver.

### Block Diagram

