

262K Color OLED Drivers for Mobile Main Display

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As Solomon Systech Limited continues its growth in IC development, we are proud to present two new [OLED](#) driver ICs with integrated controller, SSD1335 and SSD1338. They have a built-in DC-DC voltage converter, a 16-steps master current control to set overall brightness, a 256-steps contrast control for the three-color components and embedded SRAM as a display buffer. SSD1335 supports up to 132 RGB x 88 x 18 bits resolution OLED panel and SSD1338 supports up to 132 RGB x 132 x 18 bits resolution OLED panel, which provides 262K color to display. Driven by Solomon Systech's own-patented OLED proprietary driving scheme, SSD1335 and SSD1338 explode the potential of the OLED technology and enhance the performance of OLED with relatively low

system power consumption. They are perfect solutions for low power mobile cellular phone, especially for [mobile](#) phone main display, and other handheld applications with color display.

SSD1335 and SSD1338 are single-chip OLED drivers with built-in controller for color passive common cathode type OLED/PLED panel. 18-bits color depth presents the RGB colors more precisely. The internal DC-DC voltage converter supplies a high output voltage for driving the OLED panel and saves room from using numbers of external components at the same time. Besides the fact that they provide a wide range of features, such as contrast setting, column and row re-mapping, programmable multiplex ratio and vertical scrolling, it integrates our awarding winning Graphic Acceleration Engine on-chip. This allows the user to draw diagrams or pictures more easily through software commands. It provides functions such as, "line drawing", "rectangle drawing", "copy-&-paste" image, "dimming window" and "clearing window", etc.

All the above functions are manipulated through selectable MCU interface. Thus, the solution makes the end application like cellular phone more compact and competitive. Sample is available now in COG, TAB and COF packages.

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