AMOLED Displays

"AMOLED screens set to take over our gadgets"

"Many colours and low power demands point to bright future"

CMEL
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What is AMOLED?

Active Matrix Organic Light-Emitting Diode (AMOLED) displays combine, the benefits of Organic Light-emitting technology, i.e brighter and clearer, richer images with those of an active matrix technology (as used on TFTs).

The advantages of using AMOLED

Wide Range of Visibility: Good visibility from long distance & wide viewing angle
Small Size: Thickness down to 1.3 mm & small dot pitch sizes.
Image Quality: High colour saturation, high contrast and fast response time. 25x better sunlight readability than (transmissive) TFTs.Response time of µs rather than ms reduces motion blur to a negligable level
Low Power Consumption: Efficient, and low heat dissipation.The lack of backlighting, leads to much lower power consumption (typically 30% - 50%) when compared to TFTs

Operation at low temperatures: excellent response time even at low temperatures.
AMOLED vs TFT LCD please click here to see the comparison.

√RoHS

DUO AMOLED USB kit

Densitron have developed an extremely easy yet powerful demonstration tool for driving OLED displays from the USB port of a PC. Unlike other solutions DUO is hot pluggable and does not require extra cables or power supply to run, allowing users to be up and running in minutes.

The kit consists of a USB controller card, mini USB cable, an interchangeable OLED display card and a CD with software the software application and drivers.

Models currently supported are:
C0201QILK-C,C0240QGLA-T,C0240QGLB-T,C0283QGLD-T,C0283QGLH-T

Applications of AMOLED technology

AMOLED displays are suitable replacements wherever similar sized TFTs are used, especially in devices that require low power display panel. Among most popluar types of applications are:

- Industrial/Medical Instruments
- Personal Digital Assistants (PDAs), Audio/Visual display systems
- Mobile telephones, Portable Games
- Personal care appliances, Household goods
- Dynamic information displays, Digital cameras

All datasheets are in adobe PDF format

Click the heading below to sort the products in either ascending or descending order.

Size (inches)	Module ▲	Resolution	Dimension WxHxD mm	Brightness (cd/m2)	Interface	Touch	Driver IC
2	C0201QILK-C	176xRGBx220	38 x 49 x 1.3	230	SPI, MPU(i80/M68)	No	S6E63D6
2.4	C0240QGLA-T	240xRGBx320	38.8 x 51.3 x 1.65	230	SPI, MPU(i80/M68), RGB (8/9/16/18)	No	S6E63D6
2.4	C0240QGLB-T	240xRGBx320	42 x 58.6 x 2.75	185	SPI, MPU(i80/M68), RGB (8/9/16/18)	Yes	S6E63D6
2.83	C0283QGLD-T	240xRGBx320	49.1 x 67.75 x 1.95	230	SPI, MPU(i80/M68), RGB (8/9/16/18)	No	S6E63D6
2.83	C0283QGLH-T	240xRGBx320	49.1 x 67.75 x 3.05	184	SPI, MPU(i80/M68), RGB (8/9/16/18)	Yes	S6E63D6