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Mitsubishi Electric launches 9.0" QHD Color TFT-LCD Module

Mitsubishi Electric is introducing a new 9.0" color TFT-LCD module AA090AA01 in Quarter High Definition (QHD: 960 × 540) format. QHD provides half the resolution of full high definition (Full HD: 1,920 × 1,080) screens both horizontally and vertically. This makes the QHD format suitable for applications like video monitors for broadcasting as it requires a smooth conversion from full HD without degradation. With a fast response speed of less than 8ms the new QHD TFT-LCD module is able to display even fast motions with sharp images.

The new TFT-LCD module has a super wide viewing angle of 170 degrees (horizontal/vertical). The contrast ratio of 1000:1 ensures a very vivid image while covering 72% of the NTSC color gamut (16.77 million colors at 8bit/color).

The AA090AA01 contains a LED

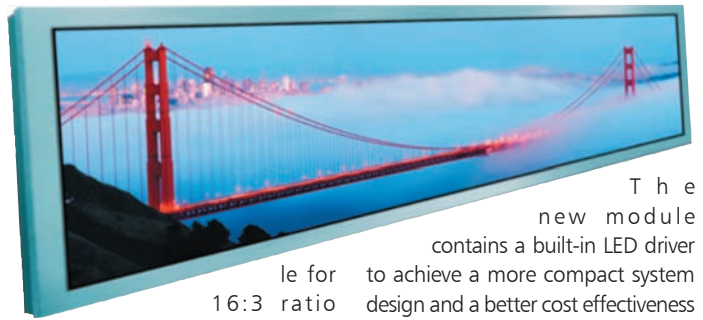
backlight with built-in LED driver so that the design engineer just needs to connect the LVDS 8bit data interface and a power supply in order to operate the QHD TFT-LCD module. The TFT module has a weight of 300g with dimensions of 217mm x 130mm x 9.5mm (w x h x d). The LED backlight has an operating lifetime of 100,000 hours at 25°C. The new device does not contain any mercury and fully complies with the RoHS directive.

With the increasing use of digital television services, there is a higher demand for equipment compatible with full HD resolution – especially for studio video monitors with integrated TFT-LCD modules that are compact but also capable of displaying high resolution videos smoothly and clearly. In addition to its 9.0" screen size, Mitsubishi Electric's AA090AA01 features fast response speed, super wide viewing angle and high contrast, thereby meeting the broadcasters' needs.

Ref. Nº 1103800

New 19.2" Color TFT-LCD Module with 16:3 wide-format by Mitsubishi Electric

Mitsubishi Electric is introducing its new 19.2" color TFT-LCD modu-



le for 16:3 ratio images (1920 x 360 pixels) offering a broad range of wide-format display and design solutions. The product AA192AA01 will be equipped with a built-in LED driver and white Light Emitting Diodes (LED) backlights, providing a longer lifetime and excellent performance as well as an inverter-less design, and will be available through Mitsubishi Electric sales sites.

Mitsubishi Electric has created a highly durable module measuring 496.5mm x 109.2mm for the display of 16:3 ratio images. The wide aspect ratio of the AA192AA01 will provide manufacturers greater flexibility to create new products incorporating extended designs and displays. Modules with a wide-format display are suitable for various applications such as kiosk systems, information monitors and entertainment applications (gaming).

The new module contains a built-in LED driver to achieve a more compact system design and a better cost effectiveness at customer's applications. At 25 degrees Celsius, LED backlights have an operating lifetime of at least 60,000 hours making it suitable for long-term use applications. The TFT-LCD module has a typical brightness of 500cd/m². The AA192AA01 achieves a top level wide operating temperature range from -30 degrees to 80 degrees Celsius, making it useful in severe climatic environments. It also features Mitsubishi Electric's proprietary color conversion technologies (Natural Color Matrix) for adjusting or replacing colors lost due to LCD characteristics, resulting in clear, vivid colors and images. Just like other Mitsubishi Electric TFT-LCD modules, the new AA192AA01 is fully compliant with the widely recognized Restriction of Hazardous Substances Directive (RoHS), and is completely mercury-free.

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