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Product Newsletter



Hitachi IPS-Pro TFT displays target industrial embedded applications



Hitachi's Display Products Group has introduced two new products, the compact 7.0" and 8.0" wide aspect ratio TFT display modules featuring many of Hitachi's latest display technology innovations. The new 7.0" TX18D35VM0AAA and 8.0" TX20D26VM0AAA feature the latest evolutions of Hitachi's renowned In-Plane-Switching technology IPS-Pro, which provides a stable colour image from any viewing angle, excellent colour saturation and a very high contrast ratio.

The new TX18D35VM0AAA and TX20D26VM0AAA support a 15:9 wide aspect ratio, a display resolution of 800 x 480 pixels (WVGA) which enable flexible graphical user interfaces to be designed for many different application environments. Challenging industrial environments are ably supported with a wide operating temperature range of -30°C to +80°C.

Demand for wide viewing angle and wide field of vision displays has increased in many embedded systems and equipment designs. Many graphical user interfaces now require highly consistent optical performance and accurate image reproduction. Contrast and colour characteristics must be maintained over a wide range of viewing angles and positions. When viewed from an acute angle, a conventional TFT display will exhibit a loss of brightness and display image colours become inverted. Hitachi's IPS-Pro TFT technology as implemented in the TX18D35VM0AAA and TX20D26VM0AAA display modules overcome the limitations of conventional TFT display technology. Additionally the new 7.0" and 8.0" Hitachi IPS-Pro displays offer a very effective 'cost versus performance' display solution when compared with traditional TN (twisted nematic) TFT display modules.

The new transmissive TFT display modules also continue Hitachi's implementation of rugged and reliable LED backlighting in medium size TFT display modules. The high brightness LED backlights provide excellent image uniformity and impressive 600:1 contrast ratio whilst delivering a brightness of 600cd/m² and a lifetime of 70K hours.

The TX18D35VM0AAA and TX20D26VM0AAA implement an industry standard 6-bit RGB CMOS data interface which enables a colour palette of up to 262K colours to be employed. The new display modules feature compact mechanical dimensions of 165.0mm (w) x 104.0mm (h) x 12.8mm (d) and 190.0mm (w) x 120.0mm (h) x 12.8mm (d) respectively.

Touch panel versions of the displays, the 7.0" TX18D35VM0APA and 8.0" TX20D26VM0APA, are also available making these four new display modules ideal for many embedded applications such as in-flight entertainment, media terminals, navigation systems, home automation and industrial user interfaces. The new TX18D35 and TX20D26 display modules are supplied via Hitachi Display Products Group distribution partners and are available across Europe immediately.

For more information, or details on the full range of Hitachi products available from

Anglia please call + 44 (0)1945 474747 or email info@anglia.com

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