Industrial Displays Offer 7-inch Diagonal Screen, LED Backlighting

Sharp is unveiling a series totalling five industrial standard 7-inch TFT LCDs in the first half of 2010. The spectrum ranges from the robust screens of the more mechanically resilient Strong2 class with extended temperature range from -30°C to 80°C to a "light" type LQ070Y3DG3A variant, with an operating temperature of -20 to 50°C which is designed to be more suitable for consumer applications. This display is also available as a touch screen model (type LQ070Y3DG3B) boasting very good optical properties: with 300 cd/m² it possesses comparatively high brightness and is every bit equal in terms of contrast to its non touch screen sister model. The TFT LCD is also slim, at 7.1 mm being only 1.1 mm deeper than the variant without the touch screen unit (LQ070Y3DG3A). In addition to the 800 x 480 pixel resolution, the five new 7-inch industrial displays have an LED-based backlight. In addition, Sharp has developed a special chassis for LED backlit industrial displays in which the backlighting LEDs are linked thermally directly with the mechanical parts of the module. Waste heat is thereby vented effectively through the rear of the display into the surrounding area so that no harmful heat accumulates, even at high ambient temperatures.

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