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New mobile TFT LCDs with standard interfaces simplify the product design of industrial and CE portables

Sharp presents new 2.2- and 2.5-inch displays for the rapidly growing special handhelds market

Hamburg, 15 October 2007 – The new Type LS022Q8UX05 2.2-inch TFT LCD and the Type LQ025Q3DW02 2.5 inch-displays from Sharp Microelectronics are primarily aimed at the rapidly growing market for special handhelds. These include small-format industrial portables e.g. testing and measuring devices and mobile systems for medical applications, as well as different consumer electronics products such as media players, cordless fixed network telephones and remote control handsets. Thanks to their standard interfaces – 8 bit CPU for the LS022Q8UX05 and CMOS for the LQ025Q3DW02 – both TFT LCDs can be easily integrated into many different applications and are simple to control. The QVGA resolution and a contrast ratio of 400:1 with a brightness of up to 350 cd/m² give brilliant picture reproduction. And you also get complete all-round vision because the 2.2-inch and the 2.5-inch panels are equipped with Sharp’s proprietary ASV technology, which provides a 160° viewing angle in all directions for these TFT displays.

The 2.2-inch TFT LCD is also a transfective display. In other words, around four percent of the structures within the display are coated with reflective microstructures that generate a contrast of 10:1 in reflective mode. This means that the display guarantees high visibility at all ambient light conditions, even in direct sunlight. Thanks to Sharp’s Continuous Grain Silicon technology, the necessary drivers and power ICs for controlling the LS022Q8UX05 are directly integrated into the display glass. The 2.2-inch display also stands out thanks to its very compact dimensions, excellent robustness and extremely low power consumption. In normal operation, the power consumption is already only 14 mW, which can be reduced to 3 mW if the display is only partially used.

Availability

Samples of the LS022Q8UX05 and the LQ025Q3DW02 will be available from Q4 2007 through Sharp sales offices and distribution partners in Europe.

Specifications

	LS022Q8UX05	LQ025Q3DW02
Screen diagonal	2.2 inches / 5.6 cm	2.5 inches / 6.3 cm
Type of screen	Transflective (TM / RE)	Transmissive (TM)
Resolution	QVAG: 240 x RGB x 320 pixels	QVGA: 320 x RGB x 240 pixels
Interface	8 bit CPU	CMOS
Outline dimensions	39.2 x 56.4 x 2.3 mm³	56.8 x 48.8 x 3.5 mm³
Number of colours	16.7 m	262k (6bit)
NTSC Quotient	80% (TM)	45%
Brightness	300 cd/m²	350 cd/m²
Contrast ratio	400:1 TM / 10:1 RE	400:1
Viewing angle	160° (H/V)	160° (H/V)
Temperature range (operating)	-10 to +60°C	-10 to +60°C
Power draw	3 mW partial mode 14 mW full mode	Tbd
Supply voltage	2.8 V	3.3 V

About Sharp Microelectronics Europe

Sharp Microelectronics Europe, Hamburg, Germany, is a divisional company of Sharp Electronics (Europe) GmbH, which is a subsidiary of Sharp Corporation, Osaka, Japan. Sharp is a worldwide developer of core digital technologies that are playing an integral role in shaping the next generation of electronic products for consumer and business needs. Sharp Microelectronics Europe offers groundbreaking solutions in the areas of memory products, LCD, Opto Components, CCD, RF/IR, IC and LSI components, along with packaging and integration skills that help design engineers throughout Europe to bring their ambitious ideas to market. Sharp Microelectronics Europe is dedicated to improving people’s lives through the use of advanced technology and a commitment to innovation, quality, value and design.

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