Press Release

ams launches the industry's smallest module to offer color, ambient light and proximity sensing

TMD3700 optical sensor module performance and small space requirements are optimal for next-generation mobile devices with ultra-thin profiles and narrow bezels

Premstaetten, Austria (2 August, 2016) -- ams AG (SIX: AMS), a leading provider of high performance sensors and analog ICs, today launched the smallest ever optical sensor module that delivers a combination of color (RGB), ambient light and proximity sensing, providing OEMs with design flexibility and the ability to provide a better display viewing experience.

The TMD3700 footprint, at 4.00 x 1.75mm, is the smallest footprint available in the market, and with height of 1.00mm, it's low-profile is ideal for next-generation mobile phones with extremely tight layout and mechanical design constraints. It's wide 45 degree field-of-view, ambient light sensing accuracy of +/-10% and operating range of 200mlux to 60Klux behind dark glass, enable smartphones to measure the surrounding light environment and automatically adjust display color and brightness for optimal viewing.

The TMD3700 color sensor channels each have UV and IR blocking filters and a dedicated converter allowing simultaneous data capture necessary for accurate measurements. The combination of photopic color and ambient light sensing enables smartphones to perform real-time adjustment of the display properties; such as white point, color gamut and color saturation, to achieve the best visual color accuracy.

The TMD3700 features allow dynamic elimination of both electrical and optical crosstalk producing reliable proximity detection; a function used by smartphone manufacturers to disable the touchscreen display when it is held close to the user's face. In addition, the module's integrated IR LED is calibrated for maximum performance and consistent operation.

"Smartphone OEMs are continually condensing their product profiles while seeking ways to improve display performance for the best visual appeal. The availability of the TM3700 light sensing and proximity detection performance in a compact package, enables innovative display management for today's space-constrained smartphones", said Darrell Benke, Strategic Program Director for Advanced Optical Solutions at ams.

The TMD3700 is available now in production volumes. Unit pricing is $1.10 in order quantities of 1,000.

For more technical information and to request samples or an evaluation board, go to www.ams.com/color-sensors/TMD3700.

About ams

ams is a global leader in the design and manufacture of advanced sensor solutions and analog ICs. Our mission is to shape the world with sensor solutions by providing a seamless interface between humans and technology. ams' high-performance analog products drive applications requiring extreme precision, dynamic range, sensitivity, and ultra-low power consumption. Products include sensors, sensor interfaces, power management and wireless ICs for consumer, communications, industrial, medical, and automotive markets.

With headquarters in Austria, ams employs over 2,100 people globally and serves more than 8,000 customers worldwide. ams is listed on the SIX Swiss stock exchange (ticker symbol: AMS). More information about ams can be found at www.ams.com.

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