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TALK TO US

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Altera Arria 10 module promises universal

Enclustra's Mercury+ AA1 is what the company claims to be the first SoC module based on the Altera Arria 10 SoC, in 20 nm technology.

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Infrared LED Illuminates Eyes Evenly In Iris Scanners

Osram Opto Semiconductors has presented an infrared LED (IRED) for iris scanners at the Mobile World Congress. The SFH 4787S illuminates the eyes so evenly that the software identifying the iris pattern hardly needs to correct artefacts. Its direction of emission is slightly angled rather than vertical, thus simplifying the design process by eliminating the usual mechanical aids.

Iris recognition is among the reliable biometric identification methods. In short, iris scanners illuminate the eyes with infrared light and a camera. Special software detects the iris pattern that is unique to individual.

Two years ago, the company was first to introduce infrared LED and brought this technology to smartphones and other mobile devices. This was followed by a version with a slightly angled direction of emission, which meant that designers no longer need mechanical aids to tilt the entire LED. The angle of emission aligns with the camera's field of view.

5G, Iot, Smartphones Become Carrier's Might

The Mobile World Congress (MWC) has been the premiere conference for tech companies to launch the latest smartphones, connectivity chips, new apps to drive up data usage and core building blocks to help mobile carriers upgrade their wireless communication infrastructure. And the communication service providers are still the MWC's core audience. But for most of them, the MWC this year is anything but business as usual.

Driving today's network providers to rethink their business model are three factors: a maturing smartphone market, the IoT and 5G.

In the IoT era, mobile carriers' customers are no longer just people. They'd have to deal with machines, vehicles, sensors, hot spots, 'things'-in an orchestrated ecosystem.

Q'Comm CTO On Non-Standalone 5G, LTE-U, IoT

BARCELONA – Qualcomm calls it Pre-5G. Nokia calls it 4.9G. Verizon has its own spec pushed by 5GTF (Verizon 5G Technical Forum).

The show floor of this year's Mobile World Congress was loaded with new monikers that reflect the cellular industry's desire to boost the current LTE business while milking the promise of 5G, which isn't here yet.

MWC participants this year have gotten a message both clear and muddled: the business of carriers and tech suppliers hangs for the time being on "a precursor to 5G," instead of 5G.

CEVA CEO Gideon Wertheizer told us this week: "The day of LTE is far from over." CEVA, an IP vendor of DSP cores, is no 5G naysayer. It has a firm foothold in 5G base station designs. But Wertheizer bluntly said, "What we see [on the show floor] about 5G is still a lot of wishful thinking."

Raspberry PI-Based TFT Controller Targets Industry 4.0 Applications

German specialist for TFT flat screens and system solutions Distec has added a new member to the proven Artista TFT controller family: the Artista-IoT for Industry 4.0 and IoT.

The TFT controller is a Baseboard with a socket for the latest generation of the Raspberry PI Compute Module (CM3). The Artista-IoT allows the direct connection of almost all common TFT types without additional hardware. The powerful processor (BCM2837, QuadCore, 1.2GHz) opens up many new applications at a very attractive price. The new controller can be easily integrated into existing Windows and Linux environments and can be adapted to suit individual needs. Distec offers a starter set consisting of BaseBoard, CM3, 10.1-inch projects in a fast and uncomplicated way. The pre-installed Raspbian ensures a quick setup and also gives access to a large community support network.

Altera Arria 10 Module Promises Universal Connectivity

Enclustra's Mercury+ AA1 is what the company claims to be the first SoC module based on the Altera Arria 10 SoC, in 20 nm technology.

The FPGA integrates a dual-core ARM processor, up to 286 user I/Os, and 12 multi-gigabit transceivers each supporting a data transfer rate of up to 12.5Gbps. Interfaces for USB 3.0, PCIe Gen3 x4/Gen2 x8 and Gigabit Ethernet mean that the connectivity requirements of almost all applications can easily be met; its DDR4 SDRAM with ECC also means that immense data throughput with guaranteed integrity is possible. The module is available in both commercial and industrial temperature ranges, and operates from a single 5-15V supply.