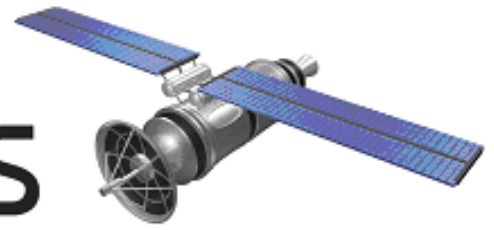


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The Global Semiconductor Industry Analysts

FH MONDAY

14 May 2018

New SoC Offers Hi-Res 3D Imaging With mmWave

LONDON — A new chip launched by Vayyar Imaging integrates an unprecedented number of transceivers and an advanced DSP to create high-resolution mmWave 3D imaging contours with high accuracy. The company claims that this breaks through current constraints in today's 3D imaging sensor technology.

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Larson Electronics LLC Releases Electric Explosion Proof Circular Fan

KEMP, Texas, May 13, 2018 (GLOBE NEWSWIRE) -- Industrial lighting leader, Larson Electronics LLC, released an explosion proof fan for use in Class I, Division 1 and 2, Class 2, Division 1 and 2 locations to produce effective airflow.

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ST's Latest BCD Node Examined

TechInsights has been monitoring the evolution of STMicroelectronics Bipolar-CMOS-DMOS (BCD) technology since the year 2000, when we performed a structural and electrical characterization of a 0.8 μm BCD device with a 1999 mask date

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TALK TO US



TI Leads Way on Analog IC Market

SAN FRANCISCO — Texas Instruments expanded its lead in analog IC market share last year with \$9.9 billion in analog revenue, more than twice that of No. 2 player Analog Devices (ADI)

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Arduino Capitalizes on IoT Upswing

SAN FRANCISCO — Fifteen years after it was first conceived, Arduino is still thought of by many engineers as a hobbyist's toy even as it is incorporated into more large-scale commercial projects, thanks largely to the rise of the Internet of Things..

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New SoC Offers Hi-Res 3D Imaging With mmWave

LONDON — A new chip launched by Vayyar Imaging integrates an unprecedented number of transceivers and an advanced DSP to create high-resolution mmWave 3D imaging contours with high accuracy. The company claims that this breaks through current constraints in today's 3D imaging sensor technology.

The advanced CMOS SoC covers imaging and radar bands from 3 GHz to 81 GHz with 72 transmitters and 72 receivers in one chip, enhanced by an integrated Tensilica P5 DSP with large internal memory. The company says that execution of complex imaging algorithms is all done without the need for any external CPU.

"We had to overcome several architectural challenges to achieve the overwhelming number of radio channels supported by a single chip, in terms of area, interconnects, and power consumption," said Raviv Melamed, co-founder, CEO, and chairman of Vayyar, in an interview with EE Times.

Larson Electronics LLC Releases Electric Explosion Proof Circular Fan

KEMP, Texas, May 13, 2018 (GLOBE NEWSWIRE) -- Industrial lighting leader, Larson Electronics LLC, released an explosion proof fan for use in Class I, Division 1 and 2, Class 2, Division 1 and 2 locations to produce effective airflow. This circular fan redirects and circulates air through hazardous locations to keep air fresh and clean.

The EPF-24-PM-220V.50HZ from Larson Electronics is a 24-inch explosion proof fan that features a high efficiency ¼ horsepower motor and a 24-inch propeller that produce over 7,980 CFM of air output. A non-sparking aluminum blade assembly protects the fan from accidental ignition and the motor is fully encapsulated. This circular fan's air output is excellent for large hazardous areas.

ST's Latest BCD Node Examined

A TechInsights analyst provides an update and perspective on the BCD technology from STMicroelectronics.

TechInsights has been monitoring the evolution of STMicroelectronics Bipolar-CMOS-DMOS (BCD) technology since the year 2000, when we performed a structural and electrical characterization of a 0.8 µm BCD device with a 1999 mask date.

BCD technology integrates CMOS logic, double-diffused MOS transistors (DMOS), lateral-diffused MOS transistors (LDMOS) and bipolar transistors into a single silicon die. The DMOS and LDMOS transistors are generally used to create high voltage or higher power output driver transistors, while the bipolar transistors provide analog functionality.

TI Leads Way On Analog IC Market

SAN FRANCISCO — Texas Instruments expanded its lead in analog IC market share last year with \$9.9 billion in analog revenue, more than twice that of No. 2 player Analog Devices (ADI).

TI held 18 percent of the analog IC market in 2017, compared to 8 percent for ADI.

Overall, the top 10 analog chip vendors accounted for \$32.3 billion in sales, a cumulative market share of 59 percent. The cumulative sales total was up 14 percent compared with 2016, and the top 10 players combined picked up two points of market share, the firm said. The total analog market was worth \$54.5 billion in 2017.

TI's analog chip sales accounted for about 71 percent of the company's total semiconductor revenue last year. TI's 2017 analog revenue represented 76% of its \$13.0 billion in total IC sales and 71% of its \$13.9 billion total semiconductor revenue. The firm also estimates that about half of TI's analog revenue last year was generated on devices built on 300mm wafers, which are still somewhat new to analog.

Arduino Capitalizes On IoT Upswing

SAN FRANCISCO — Fifteen years after it was first conceived, Arduino is still thought of by many engineers as a hobbyist's toy even as it is incorporated into more large-scale commercial projects, thanks largely to the rise of the Internet of Things.

"I think there is a big misconception still in the market around what Arduino is," said Sander Arts, chief marketing officer at Arduino. "There are a lot of people that think that this thing blinks an LED and you can build an Arduino-powered fish feeder. In the meantime, there are a lot of people that are changing the world by building anything and everything, especially in the area of IoT."