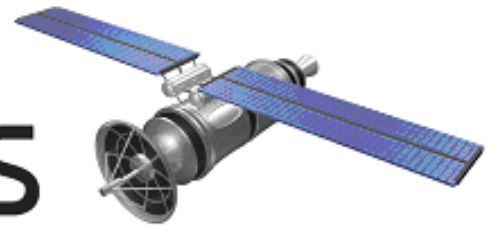


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The Global Semiconductor Industry Analysts

FH MONDAY

15 May 2017

Wireless lighting control eases installation, setup

Osram has developed a standalone wireless lighting control system designed for small- to mid-sized spaces up to about 929m² (10,000ft²) and/or up to 100 nodes. The system, called Simplux, lets you choose any manufacturer's luminaire that has a 0V-10V dimmable ballast or LED driver and deliver fixture-by-fixture or full group control as needed.

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Microsoft brings AI to mainstream software developers

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DSL pioneer shoots for terabit future

A pioneer of digital subscriber lines has unveiled a novel upgrade that could deliver terabit data rates in the future. In a keynote at the G.fast Summit in Paris, John Cioffi described the ideas behind what he calls Terabit DSL (TDSL). They include carrying 50-600GHz wireless signals through the tiny spaces between individual twisted pairs or the cables that bundle a hundred of them

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TALK TO US



Future Cars Face Terabyte Memory Load

For a highly automated or outright self-driving car in, say, 2020, how much memory capacity, to capture, process and store data, will be enough?

A consensus among experts in automotive and memory industries is this connected vehicle will require data storage of at least hundreds of gigabytes (GB) and probably a terabyte (TB).

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Toyota Selects Nvidia, Intel Feels Heat

MADISON, Wis. — Nvidia revealed Wednesday at its GPU Technology Conference that Toyota will use Nvidia's Drive PX AI automotive platform to power advanced autonomous driving systems planned for market introduction.

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Wireless Lighting Control Eases Installation, Setup

Osram has developed a standalone wireless lighting control system designed for small- to mid-sized spaces up to about 929m² (10,000ft²) and/or up to 100 nodes. The system, called Simplux, lets you choose any manufacturer's luminaire that has a 0V-10V dimmable ballast or LED driver and deliver fixture-by-fixture or full group control as needed.

The system also offers an upgrade path to Polaris 3D software and the Encelium networked light management system for more sophisticated, enterprise-level control or integration to building automation systems via BACNet. It is a solution for a variety of room or multi-room applications including new, retrofit and multi-phase construction projects.

The company is targeting Simplux at schools, commercial offices, warehouses and places where a wired solution is a challenge.

Microsoft Brings AI To Mainstream Software Developers

The convergence of artificial intelligence and cloud has taken the centre stage at this year's Build, Microsoft's annual conference for software developers.

During his opening keynote, chief executive Satya Nadella announced that Windows had reached 500 million active monthly Windows 10 devices, noting how Windows, Microsoft Office and Microsoft Azure offering developers more than a billion opportunities to connect their innovations with Microsoft customers.

"In a world of near infinite compute power and an exponential growth in data, we are focused on empowering every developer to build applications for this new era of intelligent cloud and intelligent edge," said Nadella.

At the conference, Microsoft released four new services as part of its Cognitive Services bundle, which is a set of application tools based on Azure that allows developers to build apps for Apple iOS, Google Android and Windows.

DSL Pioneer Shoots For Terabit Future

A pioneer of digital subscriber lines has unveiled a novel upgrade that could deliver terabit data rates in the future.

In a keynote at the G.fast Summit in Paris, John Cioffi described the ideas behind what he calls Terabit DSL (TDSL). They include carrying 50-600GHz wireless signals through the tiny spaces between individual twisted pairs or the cables that bundle a hundred of them.

"We are shooting for a terabit/second over 100 metres, 100Gbits/s at 300 metres and 10Gbits/s at 500 metres—all those are 200 to 1,000 times better than traditional DSLs," said Cioffi, whose research at Stanford in the 1980s led phone companies to embrace DSL for broadband.

"Those numbers could be off 10-25%, but even if they are off by 10x, it's still a substantial improvement—there's a lot of opportunity here," said Cioffi who is now a professor emeritus at Stanford and chairman of Adaptive Spectrum and Signal Alignment (ASSIA), a developer of DSL software.

Future Cars Face Terabyte Memory Load

MADISON, Wis. – For a highly automated or outright self-driving car in, say, 2020, how much memory capacity, to capture, process and store data, will be enough?

A consensus among experts in automotive and memory industries is this connected vehicle will require data storage of at least hundreds of gigabytes (GB) and probably a terabyte (TB).

With that prospect in mind, Western Digital rolled out earlier this week a new embedded flash drive, called iNAND 7250A, specifically designed as an automotive-grade storage device able to perform reliably in extreme conditions in and around the vehicle -- including ambient temperatures down to -40oC and up to 105oC.

Toyota Selects Nvidia, Intel Feels Heat

MADISON, Wis. — Nvidia revealed Wednesday at its GPU Technology Conference that Toyota will use Nvidia's Drive PX AI automotive platform to power advanced autonomous driving systems planned for market introduction.

Mike Demler, a senior analyst at The Linley Group, described Toyota's move as "potentially a big deal."

In the brewing battle between Nvidia's AI car computing platform and an Intel-Mobileye platform, Nvidia now appears to be building momentum.

According to Egil Juliussen, director research, Infotainment & ADAS at IHS Automotive, Toyota has become the fourth major car OEM publicly committed to Nvidia's Drive PX for their highly automated vehicle. The other three OEMs are Audi, Daimler, and VW Group.