

Key Excerpts From TrendForce's IT Industry Forecast for 2018 at Shanghai

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IT Industry Forecast for 2018 was held by [TrendForce](#), a global provider of market intelligence on technology industries, at the Jumeirah Himalayas Hotel Shanghai on October 26, 2017. The event was attended by 500 professionals ranging from talents of such high-tech industries as semiconductor, artificial intelligence (AI) and network communications to representatives of financial institutions and mainstream media. The symposium was kicked off by an opening speech delivered by Dr. C. L. Liu, president of TrendForce. Also, Dr. Yan Xiaolang, vice chairman of China Semiconductor Industry Association (CSIA) and head of professionals group on the construction of demonstration microelectronics college in China, participated in the conference and shared his insights on the global technology industries.

Tight supply to persist in DRAM market

DRAMeXchange, pointed out that the global DRAM bit output is estimated to grow by nearly 20% for 2017, lower than the average level of recent years. DRAM supply has been tight on account of the slowdown in technology migration and the conservative stance towards capital spending as DRAM suppliers aim to keep their profits high. TrendForce expects the DRAM industry in 2018 to be dominated by Samsung, SK Hynix and Micron. Since none of these three top suppliers intend to significantly expand their production capacity, high prices will also continue next year and provide them with healthy profits.

AI's influence on the semiconductor industry expands

Rise of China's semiconductor sector will bring new opportunities

Breakdown Analysis of the China's Semiconductor Industry is published with the interest of those wanting to know more about the booming growth of China's IC supply chain. This report contains detailed analyses on the related policies, fundraising programs and representative enterprises. The report serves as a comprehensive reference for enterprise clients when making strategic decisions.

Key trends in the display industry

WitsView, TrendForce's display research division.

5G to begin its global expansion

Developments in IoT during 2018

Apple pushes Micro LED forward as a rival to OLED

LEDinside, the LED research division under TrendForce, stated that Micro LED is the next-generation display technology that Apple is currently developing. Due to Apple's engagement, a growing number of international technology giants are also entering the Micro LED market via investments and acquisitions. However, there are high technological barriers to the mass production of Micro LED displays. The companies working in these three major fields – LED, panel and semiconductor – need to cooperate as to overcome the manufacturing challenges.

The rise of edge computing will stimulate various AI applications in 2018

Cloud computing and data storage provide opportunities for Asian server ODMs

Demand for autonomous driving solutions to propel advances in the global automotive industry

Trends in the market for new energy vehicle batteries in 2018

EnergyTrend – the green energy research division under TrendForce, pointed out that the use of batteries with ternary cathode materials in new energy vehicles has expanded significantly in recent years as their technologies gradually mature. The penetration rate of ternary batteries in the global market for new energy passenger-class vehicles has risen from 45% in 2015 to an estimated 70% in 2017. As for new energy buses, they still rely on batteries with LFP cathode because of cost and performance considerations. Nonetheless, the penetration rate of ternary batteries in the global market for new energy buses is projected to increase to more than 10% in 2017. The latest survey on subsidy rules and mainstream offerings indicate that major players in the industry will become even larger.

About TrendForce

TrendForce is a global provider of the latest development, insight, and analysis of the technology industry. Having served businesses for over a decade, the company has built up a strong base membership base of 435,000 subscribers. TrendForce has established a reputation as an organization that offers insightful and accurate analysis of the technology industry through five major research divisions: DRAMXchange, WitsView, LEDinside, EnergyTrend and Topology. Founded in Taipei, Taiwan in 2000, TrendForce has extended its presence in China since 2004 with offices in Shenzhen and Beijing. For more details about TrendForce, please visit www.trendforce.com

Major research divisions:

DRAMeXchange focuses on memory, storage and the consumer electronics industry including PC DRAM, Mobile DRAM, Server DRAM, NAND Flash, SSD and smartphone.

WitsView offers comprehensive coverage of the display industry from upstream components, midstream panels/touch modules to downstream system integrators, brands and channels.

LEDinside covers all aspects of the LED supply chain from upstream equipment/materials, midstream chip/packaging to the downstream backlight and lighting market.

EnergyTrend specializes in green energy research, such as solar energy, lithium battery, energy storage systems and xEVs.

Topology studies structural trends of technology industries in the Greater China Region and beyond, focusing on semiconductors, photovoltaic technology, telecommunications, and IA.

Media Contact

Pinchun Chou +886-2-8978-6488 ext.669 PinchunChou@TrendForce.com

Lindsay Hou +886-2-8978-6488 ext.667 Lindsayhou@TrendForce.com

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