



IPEC Successfully Holds NPO Standards Industry Summit, Aiming to Build a Robust International Standards Ecosystem

Descrizione

COMUNICATO STAMPA - CONTENUTO PROMOZIONALE

Key Messages:

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- 10 September 2026 - On September 10, the NPO Standards Industry Summit, co-hosted by IPEC and OIF, was held at the Shenzhen World Exhibition & Convention Center. The event was attended by top players from across the global industry chain, including experts from OIF, CAICT, Tencent, Alibaba Cloud, Baidu, Huawei, Broadcom, SENKO, Amphenol, and Yamaichi. The summit focused on NPO evolution and international standards development, with in-depth discussions being held on topics like ecosystem upgrade and industry chain collaboration. Ultimately, a consensus on international NPO standards was reached at the summit, laying a solid foundation for the industry upgrade and large-scale commercial use of NPO.

Dr. Zhao Wenyu, Vice Chairman of IPEC and Deputy Director of the Technology and Standards Research Institute of China Academy of Information and Communications Technology (CAICT), emphasized: "As SuperPoDs continue to expand in scale, traditional optical modules are consuming huge amounts of energy, and co-packaged optics (CPO) faces constraints like a closed industry chain and complex operations and maintenance. In contrast, near-packaged optics (NPO) - with its excellent energy efficiency, a favorable trade-off in port density, and strong compatibility with existing pluggable ecosystems - is expected to become the preferred solution for SuperPoD interconnect in the near term, and coexist and evolve alongside CPO and other solutions in the long term. We call upon stakeholders across industry, academia, research institutions, and user groups, to join hands in

developing NPO standards and driving the NPO ecosystem to evolve from “usable” to “easy-to-use at scale”.

Jiang Zhibin, the Optical Network Architect at Tencent, highlighted: “As SuperPoDs expand in scale and GPUs and switch chips increase their SerDes data rates, optical interconnect solutions will advance more rapidly towards 6.4T NPO.” Looking ahead, there is an urgent need to use opto-electronic collaborative design to overcome the challenges introduced by advanced packaging processes.

Dr. Man Jiangwei, Director of the Advanced Opto-Electronics Laboratory at Huawei, stated: “In exploring the optimal interconnect solution for SuperPoDs, Huawei has launched the industry’s first high-bandwidth 7.2T NPO product and successfully conducted a demonstration of dynamic transmission at the IPEC exhibition booth. Furthermore, with the introduction of key technologies like built-in light sources and highly-integrated SiPh chips, this NPO product features high bandwidth, high reliability, and high availability while achieving low latency, low power consumption, and low cost.”

Meanwhile, at the China International Optoelectronic Exposition (CIOE), the IPEC booth showcased the latest achievements of the global NPO industry chain, particularly those from the US, Japan, and China. The display showcased high-density connector solutions from leading vendors in the US and Japan, as well as the NPO modules of various capacities developed by multiple Chinese vendors, alongside several NPO switches, demonstrating a high level of commercial maturity.

The success of this summit and exposition marks a milestone for the development of the global NPO industry. At the summit, a consensus was reached on international NPO standards and the paths for collaboration between standards organizations and the industry chain were streamlined, laying a solid foundation for the large-scale commercial use of NPO. Furthermore, the joint exhibition of industry ecosystem products has strengthened industry confidence in building an open and prosperous NPO ecosystem.

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