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### Taiwan Photonics News :

- [Taiwan Semiconductor Taking the High Ground](#)
- [Promote quantum computing on the cloud, enterprises seeking to break through existing barriers](#)
- [Zhaga and the DALI Alliance add sensors and controllers to Zhaga-D4i certification](#)

## Taiwan Photonics News

### Taiwan Semiconductor Taking the High Ground

Emerging technologies are in great demand, and the world is relying on Taiwan's semiconductor supply chain. The industry is optimistic about the prospects of Taiwan's semiconductors in the next three years. Experts pointed out that with Taiwan's existing semiconductor technology, the prospects for the next 3 to 5 years can be secured, and the government and the private sector are already planning for the next 5 to 10 years. Experts believe that in addition to technological development in the medium and long term, international strategic cooperation is becoming more and more important. In particular, Taiwan's semiconductors have reached the commanding heights of the supply chain. The government should seize the opportunity to expand international cooperation, raise the level of cooperation, and connect more Taiwan SMEs with other companies. Industry, enter the semiconductor supply chain ecosystem. .

Emerging technologies such as 5G, Internet of Things, and electric vehicles continue to expand, and the demand for semiconductor chips continues to expand. In short supply, Taiwan's semiconductor supply chain price rises. There are also official letters from other countries requesting support from Taiwan. The industry is also optimistic about Taiwan's semiconductor at least There are still 3 years of prosperity.

## Taiwan Photonics News

### Promote quantum computing on the cloud, enterprises seeking to break through existing barriers

The IT industry actively promotes "XaaS (ZARTH)" quantum computing services through the cloud. American companies such as IBM are focusing on quantum computing services provided by next-generation high-speed computers in order to overcome multiple obstacles in the promotion of quantum computing.

For example, Japan's Keio University cooperated with IBM to establish a research base IBM Q Network Hub, said Professor Naoki Yamamoto, Director of Quantum Computer at Keio University. In the past, they could only use traditional computers to run simulation software. After cooperating with IBM, they can use IBM's resource to develop quantum

computers with a "quantum gate" method in the United States to engage in applied research in the industrial field.



## Company Note

### Zhaga and the DALI Alliance add sensors and controllers to Zhaga-D4i certification

The product ecosystem for road lighting that can be Zhaga-D4i certified now includes DALI-based sensors and controllers with Zhaga connectors, as well as luminaires. The joint Zhaga-D4i certification program from the DALI Alliance and the Zhaga Consortium has already qualified a number of Zhaga-D4i Book 18 outdoor luminaires with Zhaga receptacles and D4i components. Now, certified D4i control devices with Zhaga connectors can also be submitted for Zhaga-D4i certification.

Eligible devices include light-level or occupancy sensors, as well as control nodes that can communicate wirelessly with external networks. This ecosystem of lighting products enables smart, future-proof LED luminaires with IoT connectivity. Certified Zhaga-D4i products can carry the dual logos of Zhaga and D4i which together indicate plug-and-play interoperability of sensors, communication nodes and luminaires.

“Bringing control devices into the Zhaga-D4i program will enable a certified ecosystem of interoperable products from multiple vendors, which will be welcomed by the lighting market,” said Paul Drosihn, DALI Alliance General Manager.

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