

LiFi uses visible light to transmit data over the air. It is a major focus of Signify to make light a new communication tool. As the IoT ("Internet of Things") grows, the number of internet-connected devices increases drastically. Ed Huibers, general manager of Signify's visible light wireless communication system business unit, says there will be more than 50 billion devices relying on wireless internet connection in 2022. To tackle the issue of limited radio spectrum, LiFi technology becomes a solution for wireless connection.



LiFi is a two-way high-speed wireless communication technology transmitting signals via visible light instead of traditional radio frequency. Therefore, it is suitable for wireless radio-sensitive locations such as hospitals, clinics, factories or schools, or where WiFi signals are poor like underground spaces. Also, with guaranteed bandwidth and wide spectrum, LiFi provides stable data traffic and robust and reliable wireless communication for larger amount of users to connect multiple IoT devices at the same time. Moreover, LiFi allows the network transmission to be used only under controllable light coverage, enabling secure communication.

Based on their expertise in lighting technology, Signify provide LiFi luminaires providing data transmitting function as well as high lighting quality. However, in order to accelerate popularity of LiFi, improving optic performance of LiFi is critical, says Huibers. In addition, Signify have been expanding their capability to develop corresponding components and software systems to speed up LiFi technology as currently LiFi can only be connected with a USB access key.□□

Signify have partnered with more than 50 clients across the world to test and try LiFi applications.