

## Internet of Things (IoT)

### IoT

The internet of things, or IoT, is a network of interrelated devices that connect and exchange data with other IoT devices and the cloud. IoT devices are typically embedded with technology such as sensors and software that can include mechanical and digital machines and consumer objects.

A revolution is beginning with the marriage of LED street lighting with IoT. Adding internet protocol (IP) connectivity to LED, street lights and expanding their sensing capabilities will open a wide range of innovative applications that will transform the way we interact with our environment. The IoT bridges the physical and digital worlds through the use of smart devices that can collect or transmit information. IoT is not a single technology. It is a convergence of sensors, devices, networks, and software that works synergistically to extract knowledge and insights, and to turn them into real-world ROI. With the IoT, real-world objects are connected to the internet and interact with each other, mobile and web applications, in doing so these connected "things" become smart devices that can create, communicate, aggregate, analyze, or act on information.

The IoT brings significant benefits to street lighting. Sensor-generated information provides in-depth grid awareness and real-time feedback that can be used to optimize management and efficiency of street lighting systems.

The LED smart street lighting will play a major role in the IoT. iLamp is poised to be a key component in the world of the internet of Things (IoT) with a wide variety of applications for their smart street lighting.

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