



## PROJECT

Small scale, low power consumption frequency control products from Ecliptek are ideally suited for Connected Lighting Systems that blend LED capabilities with Internet of Things connectivity. Typically, in *CLS*, two types of FCP are required: a crystal to support the input frequency for the Zigbee, Bluetooth Low Energy or Wi-Fi, as well as a watch crystal for real time clocking.

## APPLICATION CHALLENGES

- Wide Temperature Range
- Durability – High Shock and Vibration
- Low Power Consumption
- Limited PCB Spaces

## PRODUCT SOLUTIONS

Ecliptek has worked closely with electrical engineers in the field of LED lighting on projects for connected lighting systems and LED drivers. We address critical issues and offer solutions with our competitively priced products as well as some of the industry's best lead times.

### Quartz Crystals

- [EA1012 Series](#) – SMD, 1.0mm x 1.2mm, 36MHz to 52MHz
- [EA1216 Series](#) – SMD, 1.2mm x 1.6mm, 24MHz to 54MHz

### Watch Crystals

- [E4WS Series](#) – SMD, 1.0mm x 1.6mm, 32.768kHz
- [E3WS Series](#) – SMD, 1.2mm x 2.0mm, 32.768kHz
- [E8WS Series](#) – SMD, 1.5mm x 3.2mm, 32.768kHz

## SUMMARY

Connected lighting systems marry LED technology with the IoT to bring value to our homes, office buildings, warehouses and cities in a variety of ways. Ecliptek, an ILSI America brand, produces frequency control products suited to support the phenomenal growth that is anticipated in the lighting market. Headquartered in Reno, NV all of the ILSI America brands offer competitive prices, readily available stock and FAE support for the most challenging applications.

[Ecliptek, an ILSI America Brand](#)

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