

## Network Powered Lighting for Offices



The smartengine deployment of "the link" in Nocatee, Florida has an incredible LPD of 0.12 watt/ft<sup>2</sup>.

“

Lighting our 22,500 ft<sup>2</sup> office costs us less than a cup of coffee at Starbucks per day.

”

- Raghu Misra, Founder @ the link

Offices today are being designed and built differently than ever before. With sustainability, wellness and smart building applications as three of the main driving forces behind "today's" building, it is necessary to provide infrastructures that allow for these goals to be achieved along with providing a backbone that will allow for the built space to easily adapt for the demands of tomorrow. Since 2010, the smartengine platform has been helping customers enable their space to have an infrastructure that does just that.

### MAKING THE WORKPLACE SUSTAINABLE

Lighting remains the low-hanging fruit to quickly and easily capture energy savings. By leveraging highly-efficient LEDs and using occupancy-based fixture control, smartengine delivers best-in-class energy savings whilst simultaneously enhancing the inherent building experience.

*With an average LPD of 0.1 to 0.3 watt/ft<sup>2</sup>, smartengine provides best in class lighting efficiency to help achieve your sustainability goals.*

### INDOOR AIR QUALITY (IAQ)

Return to work has driven the monitoring of indoor air quality to become one of the top priorities for employee wellness. In addition to lighting control, our wall controllers have integrated IAQ sensors that collect data on temperature, IAQ, VOC\*, CO<sub>2</sub>\*, air pressure and humidity. These data points can be provided to the BMS/BOS system to help maintain healthy levels.

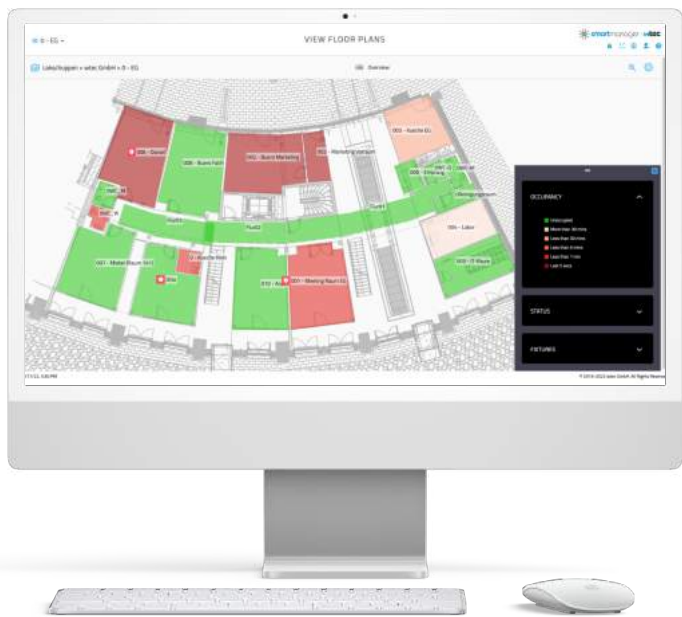
### FINE MESH SENSOR GRID ENABLE SMART BUILDING USE CASES

smartengine's fine mesh sensor grid averages one sensor per every 100ft<sup>2</sup> (10m<sup>2</sup>) allowing for an enormous amount of data to be collected. With every smartsensor gathering power, motion, illuminance and temperature data, several Smart Building Applications can easily be achieved within the smartmanager or via third party systems thanks to our simple and easy to use RESTful, BACnet/IP and MQTT APIs:

- Space Analytics
- Floor Plan
- Meeting Room Booking
- Asset Tracking
- Wayfinding
- HVAC optimization

KEY OFFICE BENEFITS	
Sustainability	<ul style="list-style-type: none"> <li>▪ Reduce energy for lighting by up to 75%</li> <li>▪ Average LPD of 0.1 to 0.3 Watt/ft<sup>2</sup></li> <li>▪ Potential for up to 29 LEED credits</li> </ul>
Well-being	<ul style="list-style-type: none"> <li>▪ Human Centric Lighting through precision dimming and tunable white LED fixtures</li> <li>▪ Daylight Harvesting at a per fixture level</li> <li>▪ Indoor Air Quality</li> </ul>
Smart Office	<ul style="list-style-type: none"> <li>▪ User-friendly web interface for easy lighting management</li> <li>▪ Space Analytics for valuable building utilization insights</li> <li>▪ Floor Plan Manager for real time location information at a glance</li> <li>▪ Open APIs for integration with third party systems</li> </ul>

FEATURING OUT-OF-THE-BOX SMART OFFICE APPLICATIONS



REAL-TIME FLOOR PLAN MANAGER

Floor Plan Manager provides real-time insights into your building's health and utilization on a floorplan basis

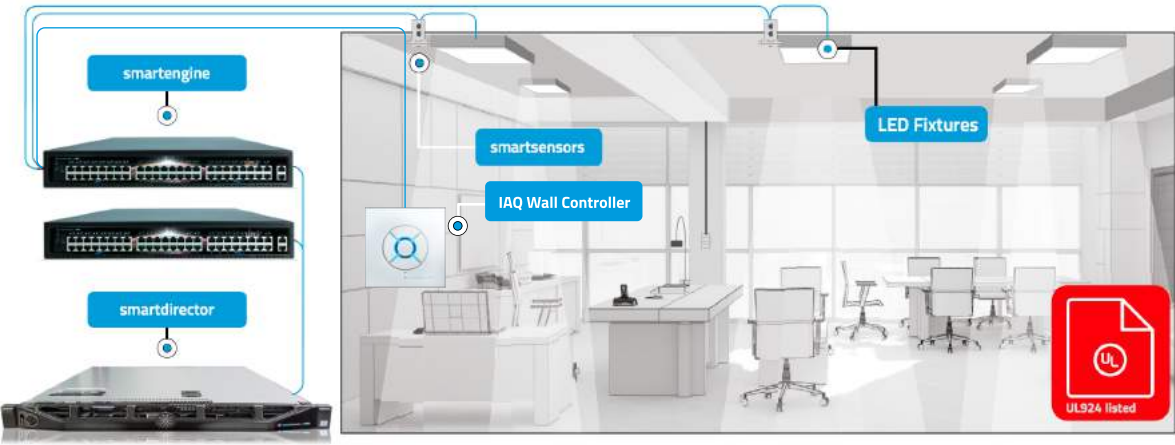


SPACE ANALYTICS TOOL

Space Analytics provides a deep-dive into space utilization and occupancy to maximize building usage efficiency



SMARTENGINE INFRASTRUCTURE



The **smartdirector** provides a browser based user interface for all of the smartengine devices, stores smartsensor data and provides web services and BACnet/IP APIs.

The **smartengine** provides power, control and communication for LED fixtures and smartsensors.

The **smartsensors** capture real-time data on motion, temperature, brightness and power consumption.