



**BubblyNet**



BubblyNet is a **smart building open platform** which delivers wellbeing and sustainability by controlling all functions of the building such as lighting, shades, air quality and sound masking.



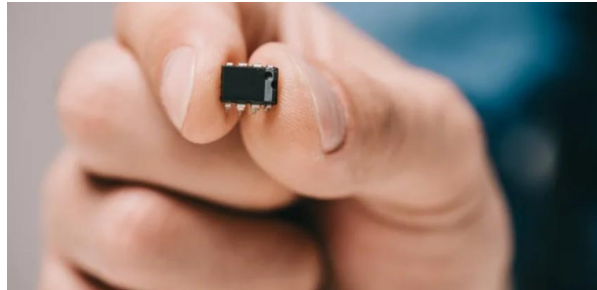


It is based on open protocol **Bluetooth Mesh/NLC**, the world's #1 low-power wireless standard.



## **BubblyNet**

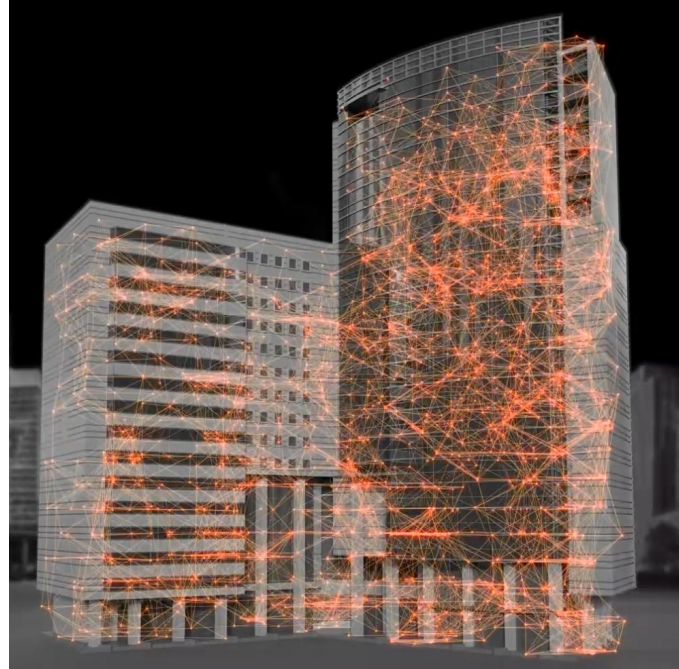
By embedding a tiny, but powerful, Bluetooth microchip in every device (driver, controller, sensor, and switch), devices become intelligent and self-sufficient.



Every device has all the software instructions (as groups, clock, schedules, scenes, transitions) it needs to operate autonomously or in coordination with other devices.



Devices, re-broadcasting messages, create a Mesh network which eliminates the need for control infrastructure even for very large projects.





## Simplification

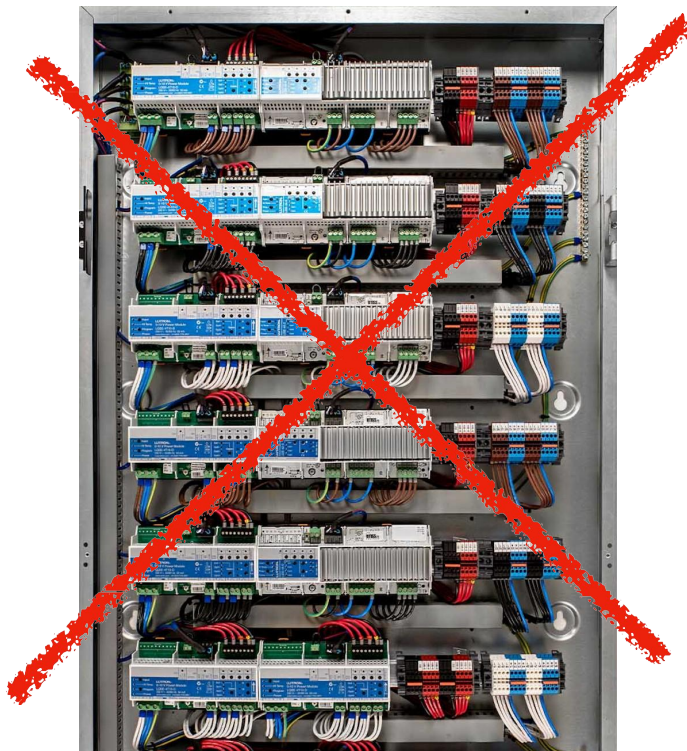
A Bluetooth Mesh network doesn't require control cables resulting in substantial labor savings.





## Simplification

A Bluetooth Mesh network doesn't require additional control hardware. The design of the system is quick and simple and the BOM substantially reduced.





## Simplification

A Bluetooth Mesh network doesn't require hubs and similar single-point-of-failure.



Nor does it require Internet or WiFi to operate.



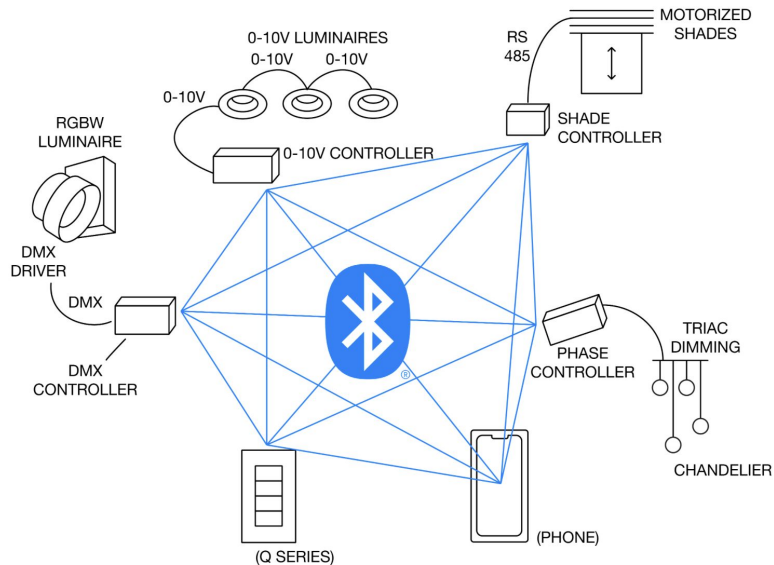




## Controllers

Any load can be controlled, either single addressing luminaires as well as per zones:

- 0-10V 1 channel & 2 channels
- Forward Phase
- Reverse Phase
- Shades
- DMX
- DALI
- Sensors
- Beam Shaper
- Dry Contact



On-board drivers can also be used:

- Constant current 1 channel
- Constant current 2 channels
- Constant current 4 channels
- Constant voltage 1 channel
- Constant voltage 2 channels
- Constant voltage 4 channels

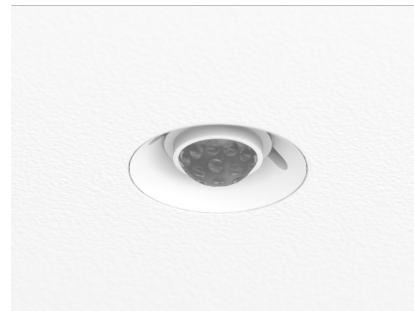




## Sensors

A wide variety of sensors are available:

- Low voltage/line voltage
- Battery powered
- PIR
- Dual Tech
- On-board luminaires
- Ceiling recessed/surface
- Wall mounted
- Track mounted
- High bay/low bay
- Daylight
- CO2
- Contact sensor





## Switches

Switches can be wired as well as battery powered





# BubblyNet

## Touchscreens



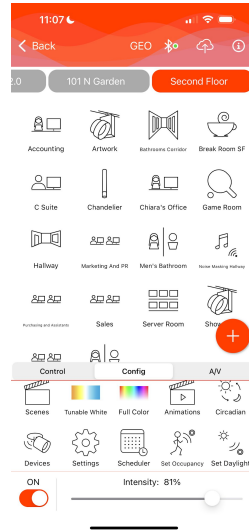
Touchscreens can be  
local-only as well as  
cloud-connected



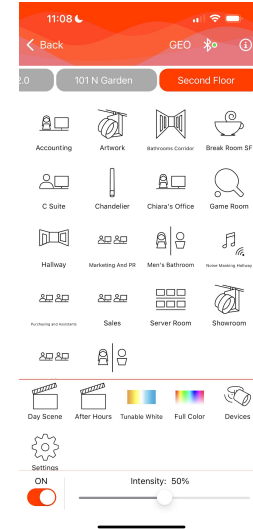


App

The App is very simple to use and available for Android and iPhone.



It can be used  
by the contractor  
to commission  
the job



as well as by  
the end-user  
to control the  
network



## Integration

Integration with HVAC, BMS and other systems is possible through:

- Dry contact;
- RS485;
- DMX;
- BACnet over IP;
- Local APIs;
- Cloud APIs.





# Bubblenet

## Cloud services

A full set of cloud services are available by adding a Gateway or a G-series Touchscreen to the project:

- Remote control;
- User Management;
- Site map visualization & control;
- Touchscreen configuration;
- Notifications & network health control;
- Multi-site aggregation.







Easy to scale for large projects

**Supernus Pharmaceuticals** - Rockville, MD. 120,000 sq.ft, 1,500 BubblyNet devices





# BubblyNet

Professional settings for high-end lighting design

**Ammoora** - Baltimore, MD      Variety of loads and dimming protocols





Cloud connectivity for Multi-site projects

**Ritz-Carlton O'ahu - Turtle Bay**      7 buildings, 1,200 BubblyNet devices





Air-gap encrypted networks for federal buildings

**SeaTac Airport** - Seattle, WA      High security requirements



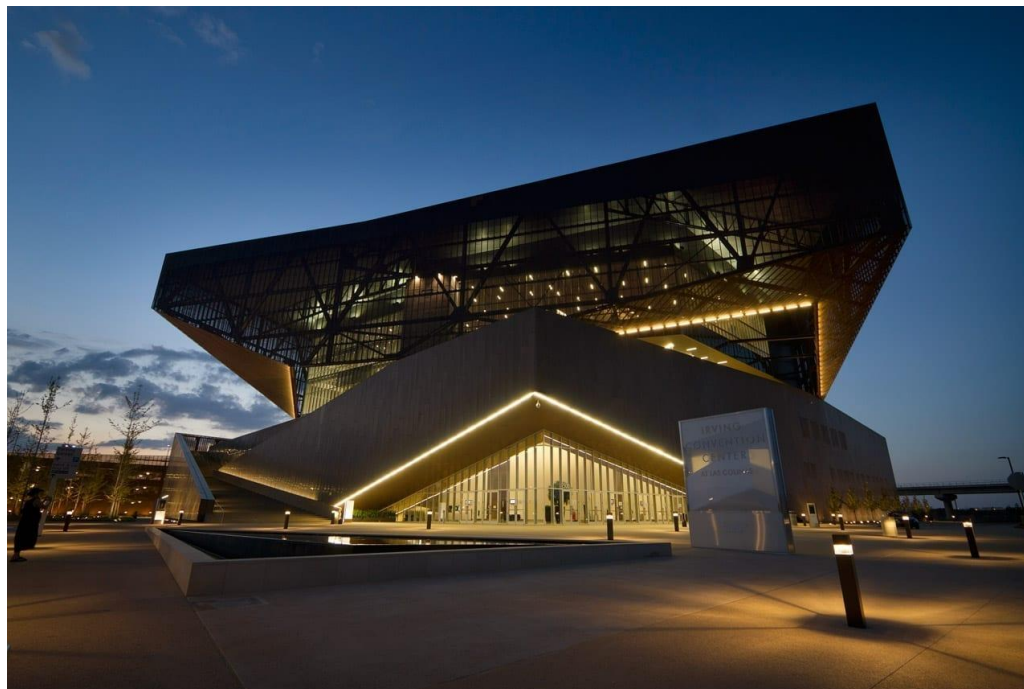




# BubblyNet

Award winning innovation for complex lighting

**Irving Convention Center** - Irving, TX      DMX multivendor integration

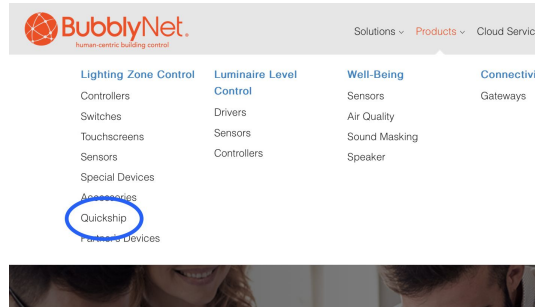




# BubblyNet

## Deliveries

On-line Quick-Ship inventory for 5 business days delivery.



Standard delivery is 4 weeks.

<p><b>20A Load Controller G-10V / Plug Load (G-120)</b> G-120-17-03.00 The G-120-17-03.00 Load Controller is a wireless module that controls via Bluetooth any ON/OFF load up to 30 Amps. It can be installed outside of a junction through the standard opening according to electrical codes.</p>	<p><b>CC 36W AC/DC 2CH Tunable White Driver (D-B1K)</b> D-B1K-30-42-17-03.00 The Tunable White driver is a wireless device that controls via Bluetooth a Tunable White fixture and does not require the use of a gateway.</p>	<p><b>CC 26W AC/DC 2CH Tunable White Driver (D-F1K)</b> D-F1K-30-42-17-03.00 The BubblyNet Drivers are the ideal solution for standalone projects as well as the backbone of complex Mesh Networks. Use two drivers in one, this dual-channel driver is programmable from 100mA up to 700mA and used for Tunable White applications. Please contact BubblyNet Sales for optional housing and pricing.</p>	<p><b>1000mA Bluetooth Mesh Constant Current LED Driver (D-C1K)</b> D-C1K-30-42-17-03.00 The D-C1K-30-42-17-03.00 driver is the ideal solution for standalone projects as well as the backbone of complex Mesh Networks. The driver is programmable from 100mA up to 1000mA. Please contact BubblyNet Sales for more information.</p>																								
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<p><b>CV 96W AC/DC 2CH Tunable White Driver (D-04K)</b> D-04K-60-24-17-03.00 The drivers are the ideal solution for standalone projects as well as the backbone of complex Mesh Networks. Use two drivers in one, this dual channel driver is used for Tunable White applications.</p>	<p><b>CC 40W AC/DC 4CH RGBW Driver (D-F75)</b> D-F75-67-25-24-03.00 The D-F75-67-25-24-03.00 Constant Current drivers are the ideal solution for standalone projects as well as the backbone of complex Mesh Networks. Use four drivers in one, this quad channel driver is programmable up to 700mA and used for RGBW applications.</p>	<p><b>CV 96W DC/DC 4CH RGBW Driver (D-04K-60)</b> D-04K-60-24-24-03.00 The D-04K-60-24-24-03.00 Four Channel drivers are the ideal solution for standalone projects as well as the backbone of complex Mesh Networks. Use this driver for all constant voltage RGBW applications: LED strips, LED panels, linear fixtures for up to 96W.</p>	<p><b>CC 20W AC/DC 1,000mA Max Driver (D-C11)</b> D-C11-03-18-17-03.00 The driver is a wireless module that controls via Bluetooth any LED fixture into a smart wireless device and does not require the use of a gateway. These drivers are the ideal solution for standalone projects as well as the backbone of complex Mesh Networks. The driver is available from 100mA up to 1,000mA. Please contact BubblyNet Sales for optional housing and additional pricing.</p>																								
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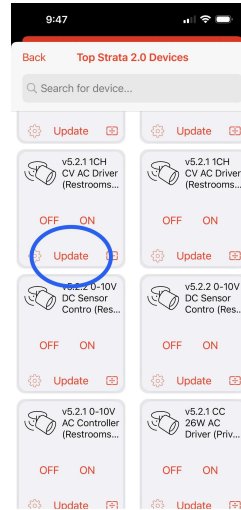


## Warranty

Hardware failure rate is: 0.3%

Standard warranty is 2 years with optional 5 years.

Software can be updated over-the-air.





Thank you