



# Developing the Connected Building



# Sinclair Autograph Hotel

## *The Connected Building*



SINCLAIR

NuLEDs  
Lighting Over IP®

 **SUPERIOR  
ESSEX**®

 **sas**®

 **Delta**  
CONTROLS

 **intel**®

 **VOLTSERVER**  
DIGITAL ELECTRICITY™

chargifi<sup>+</sup>

 **DOMETIC**  
Mobile living made easy.

 **4D SYSTEMS**  
TURNING TECHNOLOGY INTO ART

 **legrand**®

 **EM**

ELECTRIC MIRROR®

**AVYCON**®

**somfy**®

**NEC**

  
**CISCO**

 **Marriott**®

**ASSA ABLOY**

**KOHLER**®

  
**OPTERNA**  
AT LIFE SPEED™

  
**CISCO**  
**Meraki**

 **tellabs**®

 **Estelles**  
Lighting  
COMPLETE LIGHTING SOLUTION

  
**IVANI**®

 **LG**



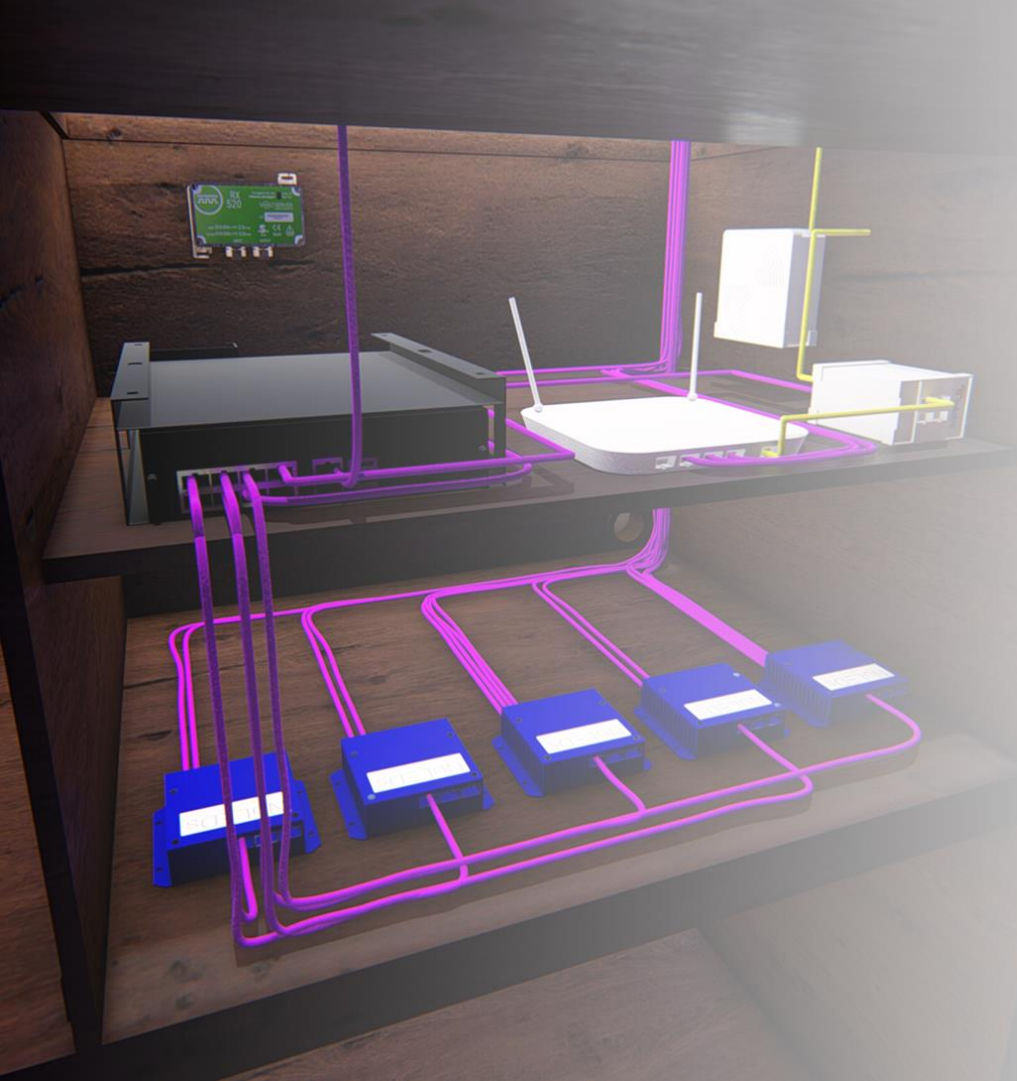
**SINCLAIR**



# Digital Electricity

- Sending *large amounts* of electricity over 18/2 cables in *packets*.
- Class 2 power that is *safe* to handle, eliminating the need for an electrician to install.
- Intelligent load shedding capabilities to distribute power based on priority in the event of a power outage.
- Allows for the removal of traditional A/C power



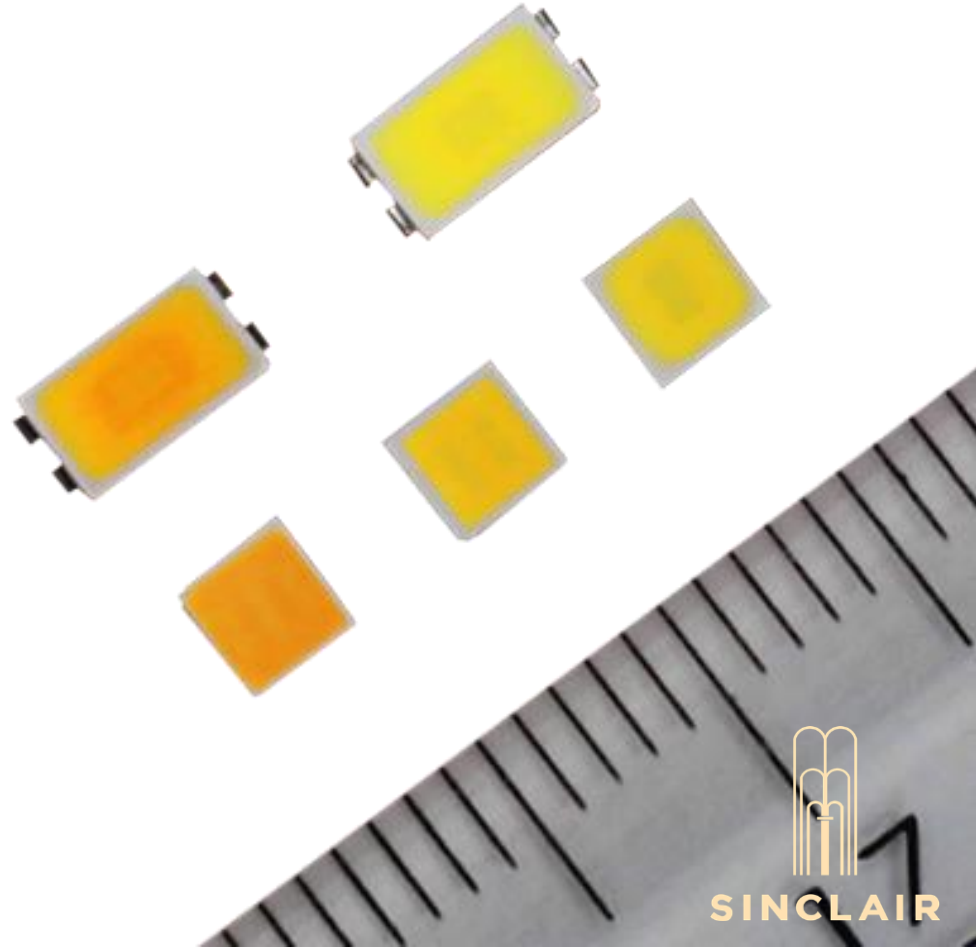


## PoE Lighting

- By removing the driver from the light, you're able to power multiple lights with a single driver.
- This allows you to then communicate with each of those lights on a network, getting notifications when maintenance is required.
- The Cisco Digital Building Switch can power all the lights in the room, and can similarly power other low-voltage devices

# LG Advanced Flip Chip LED Package

- LG Innotek succeeded in achieving an LED with a light efficiency of *220 lumens/watt*
- *Highest light efficiency in the world*
- Can withstand a temperature up to *300 degrees*
- Priced at only half of that of competitors at home and abroad to compete with Chinese Companies



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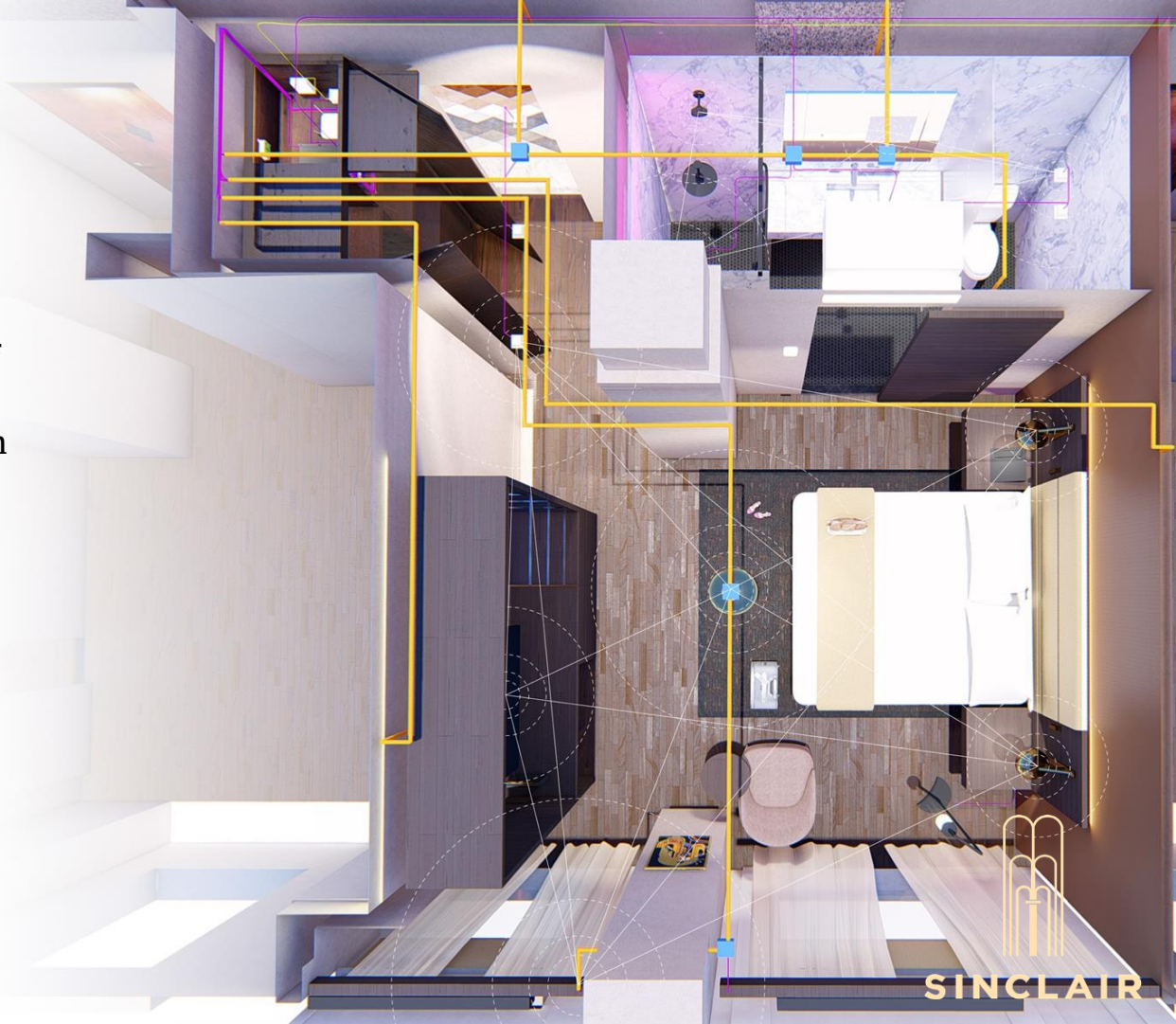
# somfy PoE Motors

- By converting traditional A/C motors to PoE, installation of window shades becomes *easy, safe, and inexpensive*.
- Responds to other aspects of the network, Voice-activation, and occupancy sensing
- *Ultra Quiet Operation*



# Ivani Bluetooth Mesh Technology

- Bluetooth Mesh technologies provide a way for a multitude of devices to communicate with each other to manage a space on it's own. Some of their possibilities include:
  - Occupancy Detection
  - People Counting
  - Inventory Beacons
  - Geo-Fencing
- The availability of bluetooth products expands every day, making bluetooth the most flexible and cost effective product on the market





# Dometic PoE Power Mini Bar

- Solid state coolers allow you to eliminate the **refrigerant**, **compressor**, and **evaporator** that normally goes into a mini bar
- By eliminating those elements, you **reduce the power consumption** to a level which can be run with low voltage PoE
- It also provides more even cooling, eliminates all noise and vibration, and offers more usable space.



# Savvy Electric Mirror

- This product by *Electric Mirror* will give every guest room an extremely high tech edge. Some of it's features include
  - Watching Television
  - Ordering Room Service
  - Color Changeable Lights
  - Bluetooth Technology to connect to your phone
  - Checking the weather
  - Calling for your car



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# Kohler DTV+ Digital Shower

- The Kohler Digital Shower will give the guests a *multi-sensory* experience by combining different aspects of water, light, sound, and steam.
- This shower can be controlled by *Voice Activation* or a PoE powered Touchscreen display that will allow you to change the exact water temperature that you desire.





# Assa-Abloy Door Locks

## Key features:

- Mobile Access Compatibility
- **Wireless** online compatibility
- RFID reader with improved reading distance
- Allow for access into room during absence
- Works with most door materials
- **Minimalistic design** allowed by electronics being placed inside the door

A row of large, white, industrial-grade backup power systems, likely Uninterruptible Power Supplies (UPS), installed in a server room. The units are tall and feature multiple doors with horizontal handles. The rightmost unit has a control panel with a small display screen, several indicator lights (blue, green, red), and a yellow emergency stop button. The units are mounted on a raised platform. The background shows a typical server room environment with a tiled ceiling and fluorescent lighting.

# Intelligent Backup Systems


Shaving peak loads, Reducing failures, Notification Systems

# Centralized Energy Storage System (ESS)

- For the first time in the world, a diesel generator used for **emergency power backup** will be replaced with a **Lithium Ion Battery Pack**
- Diesel generators are loud, unsafe, and require frequent maintenance
- Energy Storage Systems are already being used in Korea to shave peak loads, integrate with renewable energy solutions, and back up power for different applications.





A modern hotel lobby with green marble walls, a geometric patterned carpet, and a reception desk. The ceiling features a series of circular light fixtures. To the left, there is a seating area with armchairs and a large window. To the right, there is a reception desk with a stone countertop and a large, dark, circular pendant light hanging above it.

# Welcome to Sinclair

*The Hotel of the Future*