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Dynalite

## Guestroom Control Kits

Preconfigured room control kits for  
economy and midscale hotels and resorts

# Guestroom Controls

## Reliable, Automated Energy Management

Hotel operators have significant commercial pressures in the current economic environment. With rising energy costs, strong local competition, and customer price sensitivity, operators need a more reliable way to conserve energy than using traditional keycard drops.

Real-time occupancy detection automatically minimises electricity usage when rooms are vacant. Sensors optimise energy performance by controlling power to the lighting, heating, ventilation, air-conditioning (HVAC) equipment, general-purpose outlets (GPOs) and other electrical services as required.

Economy and midscale hotels especially benefit from a cost- and feature-appropriate controls kit that is fast and simple to consistently deploy at scale, and network ready for future upgrades and expansion.

Guest Experience – Focus on simple, intuitive usability and guest comfort.

Energy Management – Lower room rates drive an increased focus on cost saving.

Operational Efficiency – Fewer staff are available, so efficiency is key.

### Dynalite Guestroom Control Kits

Introducing a feature-packed, cost-effective new entry point for guestroom controls, Dynalite has developed a cost effective turnkey solution with real-time occupancy sensing that is simple to use and delivers ongoing savings.

Dynalite guestroom kits are preconfigured to improve guest experience and operational efficiency while reducing energy costs for economy and midscale accommodation.

The kits are ready to install out of the box with no further commissioning required for standalone operation. Each kit is designed to control the electrical services in a guestroom but can equally be used for public spaces.

Optional guest interfaces or third-party switches can also be added, alongside direct or networked HVAC integration.

#### Guestroom Kit Lite

A four-channel relay controller with two motion sensors and magnetic door switch. Manual light switches can be easily added.

#### Guestroom Kit

A thirteen-channel relay controller with two motion sensors and magnetic door switch. Eighteen dry contact inputs connect to wall-mounted user interfaces and four digital outputs are provided for corridor and hallway Do Not Disturb (DND) and Make Up Room (MUR) indicators. The kit is compatible with FCUC options and upgradable to a fully networked solution with multiroom dashboard and hospitality integrations.

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# Guestroom Kit Lite







The Guestroom Kit Lite is an ideal standalone entry point to automatic energy savings in the rooms.

It provides automated switched circuits and sensors to control power to the room based on real-time occupancy.

Automated real-time occupancy logic switches between occupied and unoccupied states to balance energy usage and guest comfort.

The controls can be added or retrofitted to any existing brand of lighting and HVAC, power outlets and other switched electrical services. Preconfiguration allows deployment without the need for commissioning software.

## System Features

-  **Energy management and sustainability** — Save energy without impacting guest comfort. More reliable way to conserve energy than traditional key card drops.
-  **Real-time occupancy** — Replaces the traditional keycard slot with automatic room state changes, for energy savings you can count on.
-  **Retain existing mechanical light switches** — Light switches can still be used to control power to the lighting circuits in each room.
-  **Turnkey solution** — No programming or complex setup, making it easy to implement.
-  **Broad range of control** — Master lighting control plus native HVAC and power control are included as standard.
-  **Minimal hardware requirements** — The kit and light switches provide all the required functionality. No other hardware is needed.

## System Components

### Preconfigured devices



#### DDRC420FR-GuestroomKitLite

Independent switching of four feedthrough relay channels up to 20A each.

#### DUS360CR-STR-Box1 DUS360CR-STR-Box2

Ceiling mounted recessed networked passive infrared occupancy sensor.



#### RMDCS

Recessed magnetic reed switch and magnet mounted in the entrance door to detect door open/close state.

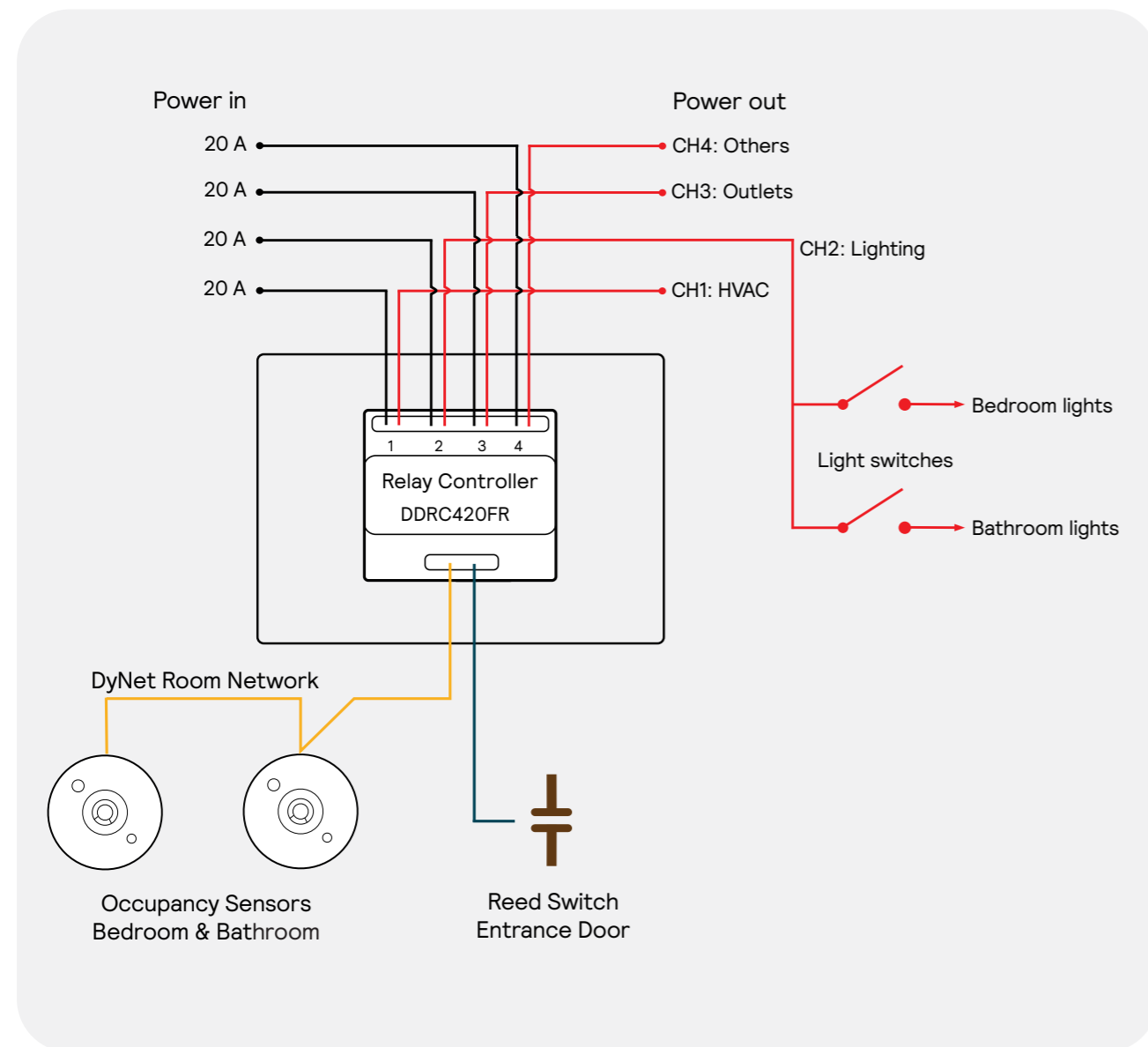
“ Using real-time occupancy delivers reliable energy savings without relying on guest actions. ”

# Guestroom Kit Lite

## Connections

The controller is installed in an electrical distribution board in or near the room and the switched outputs are connected to the room circuits. Sensors are typically placed in the main room and bathroom and are connected to the RS-485 DyNet room network. The magnetic entrance door switch is connected to the AUX terminal on the controller.

Wall-mounted light switches (not supplied) can be added to enable manual light switching.



For more information about installation, refer to individual device installation instructions.

The Guestroom Kit Lite only supports networking inside the room. Choose the Guestroom Kit to allow for full networking, multiroom dashboard, and integrations.

## Functionality

The sensors in combination with the entrance door magnetic reed switch, control the two smart states Occupied and Unoccupied.

If the room is unoccupied when the door opens, the sensors will send a command to power on the room circuits. In both occupied and unoccupied states, if the door opens or closes, the sensors will look for motion and if they don't see any, will turn the power off after 15 minutes.

### Controller outputs

Channel	Zone	Circuit	Maximum Capacity	Occupied	Unoccupied
1	General	HVAC	20A Relay	On	Off
2	General	Lighting	20A Relay	On	Off
3	General	Outlets	20A Relay	On	Off
4	General	Spare	20A Relay	On	Off

## Ordering codes

Dynalite part code	Description	Guestroom Kit Lite	12NC
DDRC420FR-GuestroomKitLite	Relay Controller + Recessed magnetic reed switch and magnet	✓	913703252209
DUS360CR-STR-Box1	Occupancy sensor (bedroom)	✓	913703373709
DUS360CR-STR-Box2	Occupancy sensor (bathroom)	✓	913703373809
Third-party light switches	Bedroom and Bathroom	Not supplied by Dynalite	

For load type output ratings, please refer to DDRC420FR installation Instructions.

# Guestroom Kit

The Guestroom Kit is a feature-packed room control system with automated switched circuits, user interface inputs, and sensors to control power to the room based on real-time occupancy. Preconfiguration allows deployment without the need for commissioning software. Network support is built in, ensuring upgradability to a fully networked system. Every aspect of this kit is designed to be feature-rich and cost-effective.

Automated real-time occupancy logic switches between occupied and unoccupied states to balance energy usage and guest comfort.

The controls can be added or retrofitted to any existing brand of lighting and HVAC, power outlets, and other switched electrical services.

## System Features



**Seamless guest experience** — Simple, intuitive usability.



**Real-time occupancy** — You can choose to keep the traditional keycard slot or use sensors to automate room state changes, for energy savings you can count on. Welcome guests with automated lighting and air-conditioning settings that retain preferences throughout their stay.



**Energy management and sustainability** — Save energy without impacting guest comfort. More reliable way to conserve energy than traditional keycard drops.



**Guest requests** — Capture Do Not Disturb (DND) and Make Up Room (MUR) requests for display outside of the room.



**Broad range of control** — Master lighting control plus native HVAC and power control are included as standard.



**Temperature display and settings** — Optional user interface to adjust temperature and fan speed through the Antumbra Display thermostat. The display dims when not in use for guest comfort overnight, waking up automatically as they approach.



**Guest interfaces** — Clear, intuitive control with tactile feedback for lighting, power, and other room services. Optional raised lettering aids accessibility for ADA rooms.



**Green mode** — Invite guests to opt in to greater energy savings for a more sustainable stay with Green mode.



**Turnkey solution** — No programming or complex setup, making it easy to implement.

“ Smart controls are most impactful when deployed across a property with integration into hotel operations. ”

# Guestroom Kit

## System Components

### Preconfigured devices



#### DDRC-GRMS-E-GuestroomKit

A versatile room automation and energy management solution with 2 high-capacity 20A relays and 11 general purpose 6A relays. The controller incorporates bridging functionality between an Ethernet LAN and connected DyNet devices.



#### DUS360CR-STR-Box1 DUS360CR-STR-Box2

Ceiling mounted recessed networked passive infrared occupancy sensor.



#### RMDCS

Recessed magnetic reed switch and magnet mounted in the entrance door to detect door open/close state.

### Optional preconfigured devices



#### DACM-Thermostat

DyNet communication module that connects to the PADPE-WW-L-STR Thermostat.



#### PADPE-WW-L-STR-Thermostat

Proximity detection and embedded temperature sensors. White polycarbonate finish with icon labelling and dynamic display.



#### DDFCUC-STR-Box1

Fan coil unit controller, designed for direct connection to HVAC systems with fan coil units (FCU).

### Optional devices

Third-party user interfaces Buttons with momentary switches are connected to the DDRC-GRMS-E dry contact inputs for manual lighting control. (DND, MUR, Master, Bathroom).

#### PAXBLE-xx-L

AntumbraLite dry-contact user interface. Available with text and icon labelling in 2, 4 and 6 button configurations with a range of colours and finishes.

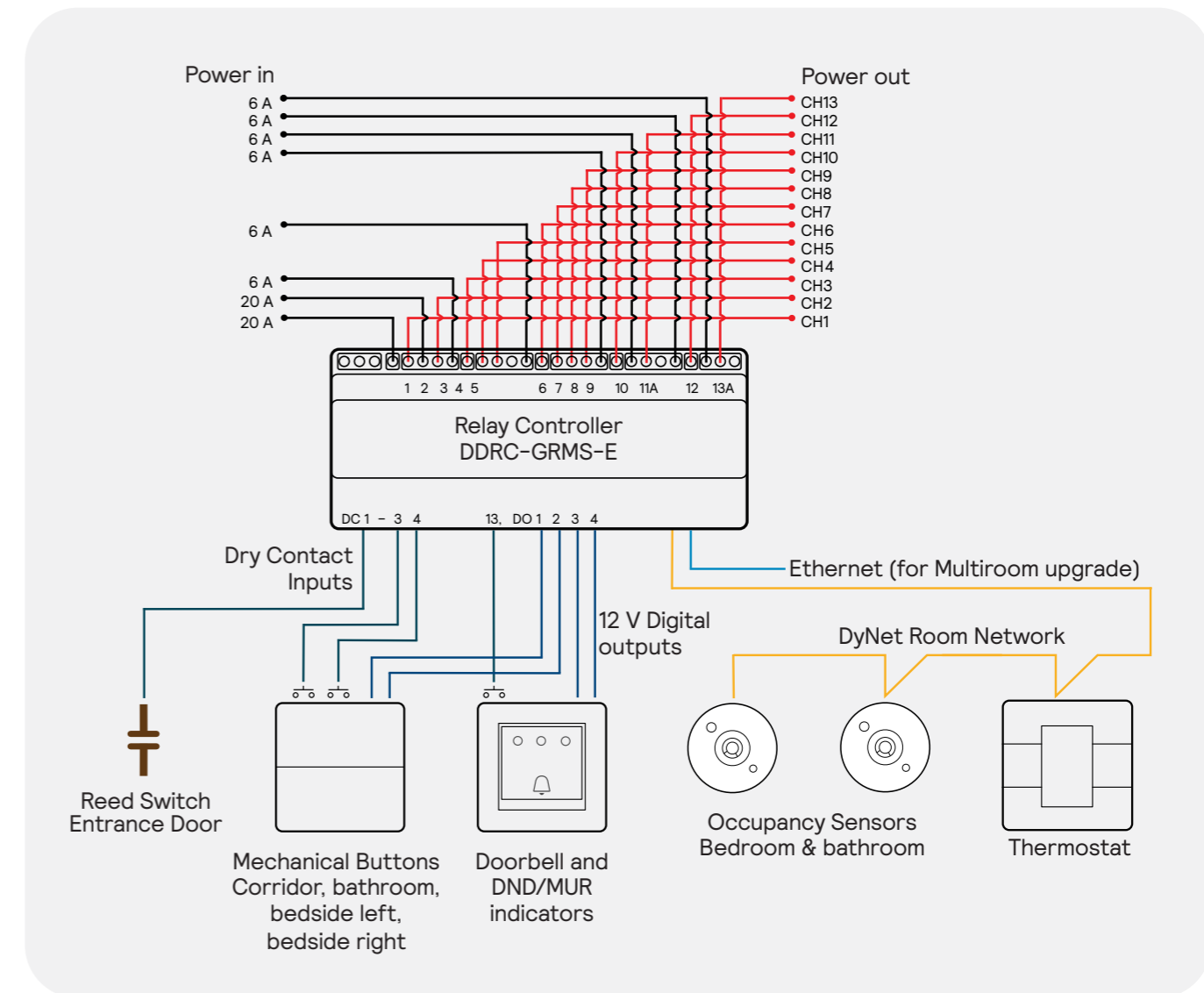
### Card-drop facility

A dry contact card holder can be used to manually enable power to the room, however, this option will decrease the reliability of energy savings.

## Connections

The controller is installed in an electrical distribution board in or near the room and the switched outputs are connected to the room circuits. Sensors are typically placed in the main room and bathroom and are connected to the RS-485 DyNet room network. The magnetic entrance door switch (or key card holder) is connected to the DC1 terminal on the controller.

The mechanical buttons are connected to the dry contact inputs as recommended in the Dry Contact Inputs table. Digital outputs can be used to drive LED indicators in the corridor and hallway panels. The optional thermostat and FCUC controller are also connected to the RS-485 DyNet room network.



For more information about installation, refer to individual device installation instructions.

The Ethernet port is only configured when upgrading to a fully networked system with multiroom dashboard and integrations.

If using channels 11 and 13, ensure you connect to the Normally Open terminals 11A and 13A

AntumbraLite user interface labelling can be customised using the Dyalite Design Studio [www.my.dyalite.com](http://www.my.dyalite.com)

# Guestroom Kit

## Functionality

The sensors, in combination with the entrance door magnetic reed switch, control the two smart states Occupied and Unoccupied.

If the room is unoccupied when the door opens, the sensors will send a command to power on the room circuits. In both occupied and unoccupied states, if the door opens or closes, the sensors will look for motion and if they don't see any, will turn the power off after 15 minutes.

If connected, the bathroom extractor fan is linked to bathroom occupancy. It is activated when the bathroom lighting is switched on and remains on for 10 minutes after the bathroom lights switch off.

Alternatively, you can choose a card drop instead of the sensors and door switch (in this case DC input 1 is for the card drop and DC input 18 must be permanently closed).

Each press of a dry contact input toggles the associated lighting circuit between on and off. The master toggle is a little different: If any of the lights are on, it turns everything off. If no lights are on, it turns on the bedroom lights.





### Controller outputs

Channel	Zone	Circuit	Maximum Capacity	Occupied	Unoccupied
1	General	Guest Outlets	20A Relay	On	On
2	General	HVAC/Service Outlets	20A Relay	On	Off
3	Corridor	Corridor Lighting	6A Relay	On	Off
4	Bedroom	Downlights	6A Relay	On	Off
5	Bedroom	Cove	6A Relay	On	Off
6	Bedroom	Desk/Floor Lamp	6A Relay	On	Off
7	Bedroom	Bedside Left	6A Relay	On	Off
8	Bedroom	Bedside Right	6A Relay	On	Off
9	Bedroom	Balcony/Nightlights	6A Relay	On	Off
10	Bathroom	Downlights	6A Relay	On	Off
11	Bathroom	Cove/Mirror	6A Relay	On	Off
12	Bathroom	Extractor fan/Spare	6A Relay	On	Off
13	General	Doorbell chime/Spare	6A Relay	N/A	N/A
















For load type output ratings, and group output limitations, please refer to DDRRC-GRMS-E installation Instructions.

Checked-in/out and room status dependent functions require the Multiroom system.

### Digital outputs

Output number	Zone	Description	Icon
1	Corridor	Guest panel DND	
2	Corridor	Guest panel MUR	
3	Hallway	Doorbell panel DND	
4	Hallway	Doorbell panel MUR	

### Dry Contact inputs

DC input	Zone	Description	Icon
1	General	Entrance door magnetic door switch or card drop	
2	General	Balcony door magnetic door switch	
3	Corridor	Lighting circuit 3	
4	Bedroom	Lighting circuit 4 (Downlights)	
5	Bedroom	Lighting circuit 5 (Cove)	
6	Bedroom	Lighting circuit 6 (Desk/Floor Lamp)3	
7	Bedroom	Lighting circuit 7 (Bedside Left)	
8	Bedroom	Lighting circuit 8 (Bedside Right)	
9	Bedroom	Lighting circuit 9 (Balcony/Nightlights)	
10	Bathroom	Lighting circuit 10 (Downlights)	
11	Bathroom	Lighting circuit 11 (Cove/Mirror/Extractor fan)	
12	Bathroom	Master ON/OFF toggle	
13	General	Doorbell chime/Spare	
14	General	Do-not-disturb (DND)	
15	General	Make-up-room (MUR)	
16	General	Master ON	
17	General	Master OFF	
18	General	Real-time occupancy/Card drop selector.	

# Guestroom Kit

## Ordering codes

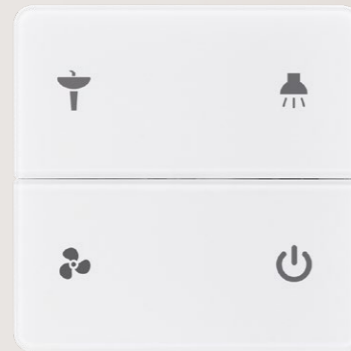
Dynalite part code	Description	Guestroom Kit	Optional	12NC
DDRC-GRMS-E-GuestroomKit	Advanced relay controller + Recessed magnetic reed switch and magnet	✓		913703379209
DUS360CR-STR-Box1	Occupancy sensor (bedroom)	✓		913703373709
DUS360CR-STR-Box2	Occupancy sensor (bathroom)	✓		913703373809
DDFCUC-STR-Box1	Fan Coil Unit Controller		✓	913703373609
DACM-Thermostat	DyNet communications module		✓	913703251809
PADPE-WW-Thermostat	AntumbraDisplay Thermostat		✓	913703093009
PAXBLE - for user interface design and ordering codes, refer to the Dynalite Design Studio	AntumbraLite Euro. Two, four or six button panel with dry contact switches.		✓	

## AntumbraLite button examples

Entrance



Bathroom



Bedside - Left



Bedside - Right



# Multiroom System











The Guestroom Kit is fully upgradable and network-ready. The DDRC-GRMS-E controller can connect to a fully networked system with Multiroom dashboard and integrations.

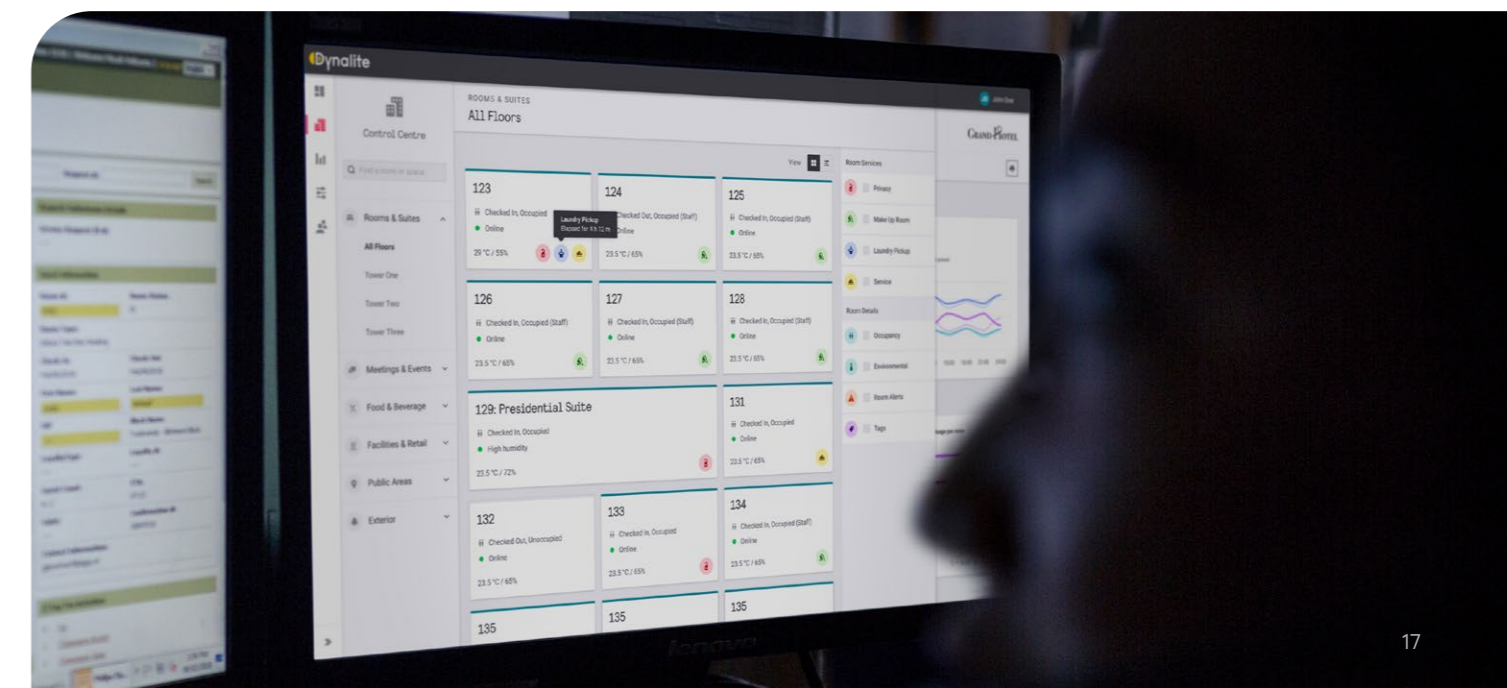
Network connections to sensors, guest interfaces, lighting, window coverings, HVAC, access control, and property management systems enables intelligent automation for efficient running of your total operation.

The Multiroom system delivers enhanced guest experience, energy management, and improved staff efficiency with occupancy and guest request visibility across your entire property.

## System Features

Multiroom System Manager includes all the features of the Guestroom Kit plus the following features.

-  **Real-Time Visibility** — Unified browser-based dashboard showing real time and historical data for all your spaces.
-  **Operational Integrations** — Enhance staff efficiency through integration with housekeeping and facilities systems, enabling prioritisation of scheduled tasks such as make-up room requests. Real-time occupancy data further optimises prioritisation by highlighting vacant rooms.
-  **Guest-Facing Integrations** — Apps, tablets, voice.
-  **Access Control Integration** — Access control integration helps to tailor room conditions to suit Guests or Staff. Guest personalisation settings are restored.
-  **Proactive Monitoring and Alerts** — Proactive monitoring and alerts of system health, guest requests and environmental values.
-  **Historical Energy and Reporting** — Visualise historical energy data and produce custom reports.
-  **PMS Integration** — Integrate checked-in/checked-out statuses from Property Management System. Conserve energy when rooms are unsold.
-  **Software-Upgradable** — Remotely upgrade room defaults, firmware, and configuration.
-  **Room Statuses and Guest requests** — Guest and staff control of DND, MUR requests.
-  **Seasons and Schedules** — Self-managed schedules and seasonal settings. Create regular and special schedules, for timed events or follow sunrise and sunset.

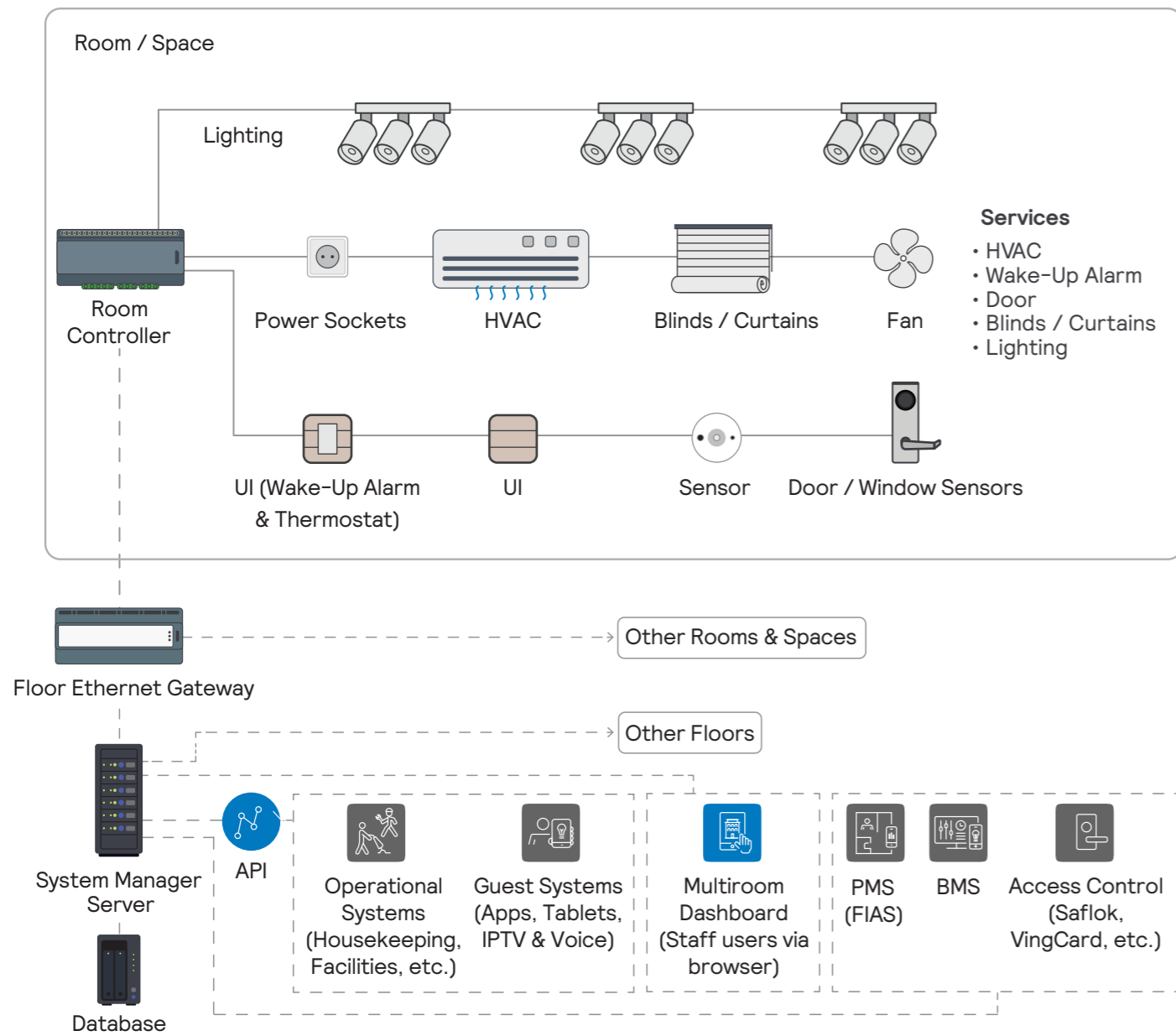


# Multiroom System

## System Components

Upgrading the guestroom kit to the multiroom system requires these additional components:

- Multiroom System Manager server and multiroom dashboard.
- PDDEG-S Floor Ethernet gateways.
- Ethernet cabling.
- Integration with supported hospitality systems (room booking, access control, housekeeping, maintenance and guest apps).



# Room control system comparison

Feature	Guestroom Kit Lite	Guestroom Kit	Multiroom System
Seamless guest experience		✓	✓
Energy management and sustainability	✓	✓	✓
Broad range of control	✓	✓	✓
Real-time occupancy	✓	✓	✓
Turnkey solution	✓	✓	
Retain existing mechanical light switches	✓		
Minimal hardware requirements	✓	✓	
Guest Interfaces		✓	✓
Guest requests		✓	✓
Temperature display and settings		✓	✓
Green mode		✓	✓
Operational efficiency			✓
Room statuses and guest requests			✓
Proactive monitoring and alerts			✓
Seasons and schedules			✓
Historical Energy and Reporting			✓
Software upgradable			✓
Access Control Integration			✓
PMS integration			✓
Operational Integrations			✓
Guest facing integrations			✓





To learn more about our control solutions  
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