INTRODUCTION

Thailand-based ELECON INTERNATIONAL CO., LTD. was founded in 1995 with aim of becoming an industry-leading provider of electronic devices and components. In succeeding years, the company has applied considerable expertise towards the design and production of advanced, tailor-made solutions, particularly for clients in the hospitality sector. Hotels and resorts wishing to ensure guests enjoy the utmost comfort and convenience look to ELECON for innovative, intuitive and stylish technologies.

ELECON’s growth has coincided with a tremendous increase in tourism not only in Thailand but throughout Asia as well as the Middle East. With new hotels opening frequently, owners and designers rely on superior amenities to distinguish properties within a highly competitive environment. In the case of switches, control panels and other components used in guest-room technologies, some manufacturers rely on standardized products in order to maximize application. From its start, however, ELECON took a different approach. By focusing on the unique needs of hotels, the company has established itself as one of the world’s pre-eminent providers of hi-tech guest room amenities.

Today, ELECON partners with and provides solutions for a great number of international hotel chains and groups. Indeed in Thailand alone, the company’s state-of-the-art products are preferred by: Park Hyatt Cambodia, The Okura Prestige Bangkok, The Sukhothai Bangkok, Four Seasons Hotel Bangkok, Banyan Tree Bangkok, Grand Hyatt Erawan Bangkok, Le Meridien Bangkok, JW Marriott Hotel Bangkok, Centara Grand at CentralWorld, Renaissance Phuket Resort & Spa and among other properties.

The continuing satisfaction of ELECON customers locally has led to an increased presence abroad. The company’s reputation for customized solutions now extends to countries including Malaysia, Vietnam, Sri Lanka, Dubai and United Arab Emirates, to all of which ELECON exports products for clients demanding sophisticated designs produced to the highest international standards.

Combining technological expertise with a keen understanding of accommodation-related requirements, ELECON creates a distinctive, personal touch of luxury for hotel guests worldwide.

About the company's official business address and contact details:
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Email: info@eleconthailand.com Website: www.eleconthailand.com
Our considerable experience in the hospitality industry gives us direct insight into the needs of owners, designers and operators. Two key concerns among hotels are the need to maximize energy efficiency while at the same time to provide guests with maximum comfort. ELECON’s Room Control Unit (RCU) products have been designed and manufactured to fully meet such needs.

ELECON likewise keeps in mind that every hotel is different, including those of branded properties, and so are careful to match units to individual requirements. Our design and manufacturing process furthermore allows us to customize systems for complicated room configurations, for instance suite rooms containing multiple areas to control via a variety of input devices.

ELECON RCUs are suitable for a wide range of accommodation types, from budget hotels, to boutique properties, to the most opulent five-star resorts. Common to all designs, however, is the presence of important safety features in every unit, for example low-voltage input as part of wall switch and bedside control devices. RCUs similarly have been designed for compatibility with Elecon bedside control and touch screen panels as well as with commonly used gang switches.

**Features**
- Working with Keycard holder
- Housekeeping Service Panel (Do Not Disturb/Make Up Room)
- Lighting Control
- Dimmer Control
- Air-conditioning Control with our customizable Thermostat
- Fan Control
- Curtain Control
- Music in Bathroom/Bedroom
- Remote Control for TV
- Movement sensor
- Networking to Central Monitoring System

**Energy Saving Features:**
- Built-in temperature sensor for accurate temperature control
- Automatic room energy saving with user programmable setback control
- Multiple setback control points for maximum energy saving
- Optional for online monitoring and control for maximum room energy
- Cost saving with compromise to guest comfort
- Automatic sleep mode temperature control for optimum guest comfort and energy saving
**ELECON RCU Specifications**

<table>
<thead>
<tr>
<th>RCU COMPONENT</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case</td>
<td>Metal box with ventilation slots Able to connect to bar ground (Protection against electrical shock)</td>
</tr>
<tr>
<td>Case Dimensions</td>
<td>W 230 (mm) x L 330 (mm) x D 110 (mm) W 300 (mm) x L 400 (mm) x D 120 (mm)</td>
</tr>
<tr>
<td>Relay</td>
<td>12 Relays (Additional 5 Relays) Air-con, Lighting and General Plugs 10 Ampere 30 Ampere HKE / OMRON</td>
</tr>
<tr>
<td>Control Circuit</td>
<td></td>
</tr>
<tr>
<td>Control Relay</td>
<td></td>
</tr>
<tr>
<td>Air-con &amp; Lighting</td>
<td></td>
</tr>
<tr>
<td>General Plugs</td>
<td></td>
</tr>
<tr>
<td>Brand</td>
<td></td>
</tr>
<tr>
<td>Switching Power Supply</td>
<td>200 – 240 VAC 12 VDC 50/60 Hertz</td>
</tr>
<tr>
<td>Primary Rate Voltage</td>
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</tr>
<tr>
<td>Secondary Rate Voltage</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td></td>
</tr>
<tr>
<td>Environmental</td>
<td>–10 to 50 0 – 90% (Non condensing)</td>
</tr>
<tr>
<td>Operation Temperature</td>
<td></td>
</tr>
<tr>
<td>Relative Humidity</td>
<td></td>
</tr>
<tr>
<td>Switch Control for Lighting &amp; Do Not Disturb</td>
<td>12 VDC Switch Options: Local Switch Glass Touch Switch Soft Touch Switch Bedside Control Panel Touch Screen Control Panel</td>
</tr>
<tr>
<td>Low Voltage Switch</td>
<td></td>
</tr>
<tr>
<td>Fuse</td>
<td>3 Ampere</td>
</tr>
<tr>
<td>Emergency Fuse</td>
<td>5 Ampere</td>
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<tr>
<td>Normal Fuse</td>
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<tr>
<td>Terminal</td>
<td>300 – 600 Volt 15 – 25 Ampere</td>
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<tr>
<td>Voltage</td>
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</tr>
<tr>
<td>Ampere</td>
<td></td>
</tr>
<tr>
<td>Wiring</td>
<td>2 Cores cable (indicators and switches)</td>
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<tr>
<td>Technical Specification</td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>PIC 18Fxx2 DS1307 (Long Life – 10 Years) Two Hole (Protect Noises) Supported using RS485</td>
</tr>
<tr>
<td>Back Up</td>
<td></td>
</tr>
<tr>
<td>PCB</td>
<td></td>
</tr>
<tr>
<td>Networking</td>
<td></td>
</tr>
<tr>
<td>Programming</td>
<td></td>
</tr>
<tr>
<td>Controller</td>
<td></td>
</tr>
</tbody>
</table>

**Diagram:**
- **Bedside Control**
- **Movement Sensor**
- **Key Card Holder**
- **Switch panel**
- **Do not disturb/bell**
- **Digital Thermostat**
- **Magnetic Door (Door Sensor)**
- **Light**
- **Air-Conditioner**
- **Fan**
- **Music control**
- **Cutain**
NET WORK SYSTEM

INTERFACE AND INTEGRATION SOLUTIONS

ELECON’s integrated Net Work System links each relay control unit (RCU) throughout a hotel with a central server. This creates a “hotel guest room control system” for interfacing with other systems, including the hotel’s:

- **Property management system (PMS)**
  By interfacing with hotel PMS, ELECON’s Net Work System provides an interactive, online communication network linking electronic devices in each room with the front desk, housekeeping, concierge as well as other hotel areas. The system allows for advanced guest room management.
  For example, once a guest checks out, room status can be instantly relayed and “Save Now” temperature settings remotely applied, allowing hotels to reduce energy use after a room is no longer occupied. When a guest checks in, the system’s “Ready Temp” mode quickly ensures comfortable conditions on room entry. ELECON’s Net Work System solution also continuously monitors the current temperature of every room, providing real-time information so that hotels can shut down chillers when not needed and achieve additional energy savings.

- **Building management system (BMS)**
  Through ELECON’s Net Work System link, BMS monitoring and control of building’s mechanical/electrical equipment can be extended to inside each guest room.
**BE
dSIDE CONTROL PANEL**  
TOUCH SCREEN

Application

ELECON Touch Screen Bedside Panel is installed next to the bedside with provides conveniences for the guests. The device will display all the control functions available on the thermostat. Touch Screen receive inputs from various devices and sends outputs to control these same devices, as well as other devices where no inputs are generated including Alarm clock/World time. The function of the device enable to operate further as a network where it includes ordering room services, leaving message and other hotel provided services. A completely customizable device with multifunctional controller that provides the conveniences for the guest. Simple interface control with power saving for hotel users and can also be integrated with other devices. Within the standard design guidelines, the designer controls the look and feel of the guest interface. The hotel can also add a selection of music genres such as the guest can use as well.

Operation

Touch Screen Bedside Controller is the latest leading-edge technology designed for guest to appreciate the multifunction device and the satisfaction for the guest. Each of Touch Screen Panel switch function displayed will provide an instant response.

Features

- Light control
- Dimmer and scene setting.
- Air condition control, temperature set and display.
- Digital clock with alarm and world time function.
- Do not disturb/Make up room/Privacy please function.
- Blinds, curtains control.
- Display can be dimmed
- Multiple languages applications.
- Customized as required.

Specifications

The screen is a color active matrix TFT-LCD that uses amorphous silicon TFT as a switching device. This model is composed of a 5.7/7 inches TFT-LCD panel, a driving circuit; touch panel and LED backlight system. This TFT-LCD has a high resolution and can display up to 262,144 colors

5.7 Inches Color VGA TFT Module

- Display resolution (dot): 640RGB (W) X 480 (H) dots.
- Display area: 116.16 (W) X 87.12 (H) mm.
- Pixel pitch: 0.18 (W) X 0.18 (H) mm.
- Color Configuration: RGB Vertical stripe
- Overall dimension: 127.0 (W) X 98.43 (H) X 9.1 (D) – (Typ) mm.

7 Inches Color VGA TFT Module

- Display resolution (dot): 800RGB(W) X 480(H) dots.
- Display area: 152.4 (W) X 91.44 (H) mm.
- Pixel pitch: 0.1905 (W) X 0.1905 (H) mm.
- Color Configuration: RGB Vertical stripe
- Overall dimension: 178.5 (W) X 110.0 (H) X 19.8 (D) – (Typ) mm.
Application

ELECON Bedside Panel is installed next to the bedside with provides conveniences for the guests. The panel is the Touch Button Type. It is cater the tailor-made style, which compliment with the requirement of our client. Touch Button Bedside Control Panel also have features similar to Touch Screen Bedside Control Panel such as World Clock and Make Up Room. A completely customizable device with multifunctional controller that provides the conveniences for the guest and simple interface control with power saving for hotel users and can also be integrated with other devices. Whatever the client wants, ELECON gives.

Features

• Light control with soft touch switch.
• Dimmer and scene setting.
• Air condition control, temperature set and display.
• Remote TV/Music, channel and volume control.
• Digital clock with alarm and world time function.
• Do not disturb/Make up room/Privacy please function.
• Blinds, curtains control.
• Customized as required.
DIGITAL THERMOSTAT

Elecon Digital Thermostat provides temperature control, and motion detection for energy-efficient management of the AC system. Equipped with ENERGY SAVING MODE to provide additional energy saving benefits.

Elecon Digital Thermostat is customizable to match with the room décor.

Features

• Microprocessor-based
• Programmable by Hotel
• Four-digit display for precise digital control
• Low voltage
• Low installation costs, easy to install and operate
• Relay control unit is separated from room display panel
• Multi-way control
• Interface with PIR sensor
• Balcony Door monitoring
• Occupied/Unoccupied mode for conserving energy
• Auto restart after power failure
• Central control and monitoring
• Customize thermostat panel as required
Currently, many hotels requested us to provide them with the movement sensor that will be useful for saving energy in air conditioning, lighting and TV, when the guest left the room.

Energy Saving is one of our top priorities in designing our products. We always consider the hotel owner’s expenses in maintaining the hotel without compromising the beauty, elegance and services of the hotel itself.

ELECON designed a Movement Sensor not to monitor the guest’s activities but to save the energy. Our sensor is purely connected to our system so much so that when the room is vacant, the air conditioning system will automatically increase temperature. When the room occupied and movement happens the movement sensor will detect and set the temperature back to the guest setting.
MUSIC IN BATHROOM

ELECON’s customizable Music in Bathroom system lets guests enjoy audio entertainment while relaxing in the tub or any time when using bathroom facilities and amenities. Audio source can originate from pre-programmed music channels, local broadcast stations or via TV system, all managed through control unit in bathroom. Two-part system comprises amplifier and music-volume switch panel. Switch panel functions such as channel and volume control are fully customizable at design stage. An in-built safety feature ensures audio entertainment programming is automatically superseded during emergency announcements, for instance in the event of fire or any urgent situation requiring the immediate attention of all hotel guests.

ELECON MUSIC CONTROL PANEL

ELECON’s Music in Bathroom system lets guests enjoy audio entertainment in the tub or any time when using bathroom facilities and amenities. Panel functions are fully customizable at design stage. The system’s in-built safety feature, moreover, ensures audio programming is automatically superseded during emergency announcements.

ELECON Music Control Panel Features

- Low-voltage cabling and wiring for safe operation
- Inexpensive installation
- Customizable elements:
  - Size and shape
  - Switch button type: soft touch/push button/rotary
  - Colors of device component as well as button and LED illumination
  - Text language and symbol/icon type
  - Branding on face panel
  - Material and finish: aluminium/glass

Application

- Volume control
- Channel control
- AV speaker override for fire/emergency alarm

Operation

Elecon Music in Bathroom system is connected to the bedroom systems (TV and radio) and interfaced with hotel emergency communications/public address system. Guests can control the speaker volume using volume control units located in the bathroom and bedroom.

TECHNICAL SPECIFICATION

- UK or US socket size
- Cabling – TIEV 6 core
- Power – 12 volt dc
- Ambient temperature operation range – 0° to 40° C
- Maximum 6 buttons per panel
ELECON Switch Panels and Sub-panels are made of different sizes, colors, finish and brands depending on the client’s requirement. We are always after the beauty and elegance of the hotel motif but without compromising the quality of our products. We always offer variety of switches that will satisfy hotel owners.

**KEY CARD HOLDER**
When the guest walks in to guestroom and inserts Key Card into Key Card Holder, it will let electricity supply to all lighting, air conditioning and power outlet. When taking out the Key Card, it will be set to delay for 30-45 seconds before automatically cut down the electricity in the room.

**FAN CONTROL**
One of the features from ELECON RCU is the Ceiling Fan Control. The panel controls this fan which can be tailor-made using available switch face plate brands for maintaining identity and consistency of guestroom design.

**CURTAIN CONTROL**
With our additional module on ELECON RCU, we offer the guest curtain control for the most comfort of every guest. Curtain control via switch panel that once again tailor made to every hotel which requires it.

**LIGHTING CONTROL**
It is a common setup and program for the switch to turn on or turn off a particular light or group of the lights according to hotel requirement as this is normal operation for ELECON RCU. However with advance design and ELECON can produce more advance functions in accordance with hotel’s requirements like setting up a dimming system and set scenes.

Our ELECON RCU comes with the modular designed that is expandable to many controllers. It is easy to have control over the lighting by adding Dimmer into RCU. Lighting designer can set the scene for default, and the guest can adjust to their favorite. With our tailor made switch offer the guest ease of control over the light that comfort with.
SOFT TOUCH SWITCH

Elecon's Soft Touch Switch technology has been designed and manufactured specifically for the hotel industry. All components are customizable to each property’s requirements and feature wide-ranging functions that ensure the safety, security, comfort and convenience of guests. Face panel appearance, moreover, can be matched to that of major switch and socket brands such as Biticino, MK, Schneider, Panasonic and others to blend harmoniously with hotel décor.

Features

Low-voltage cabling and wiring for safe operation
Inexpensive installation
Multi-way switching for full function control anywhere in room
Customizable elements:
• Size and shape
• Color of device components as well as button and LED illumination
• Text language and symbol/icon type
• Branding of face panel.

Application

• Lighting control including mood effect, dimmer, night light, master on/off
• Room control including fan, curtain/blind, music
• Digital thermostat panel
• Do not disturb/make up room control or indication
• Doorbell activation

Technical Specifications

UK or US socket size
Cabling – TIEV 6 core
Power – 12 volt dc
Ambient temperature operation range – 0° to 40° C
Maximum buttons per panel – 6
PUSH BUTTON SWITCH

The Push Button Switch series by Elecon comprises versatile, stylish and highly customizable components. Panels are available in a variety of colors and finishes to complement any interior style or motif. Features such as illuminated buttons and combined symbol/text indications make clear all functions and allow hotels to greatly enhance comfort and convenience.

Features

- Low-voltage wiring for safe operation
- Inexpensive installation
- Multi-way switching for full function control anywhere in room
- Customizable elements:
  - Size and shape
  - Color of device components as well as button and LED illumination
  - Text language and symbol/icon type
  - Finish (Metal/Matte/Glass/SqIn)

Application

- Lighting control including mood effect, dimmer, night light, master on/off
- Room control including fan, curtain/blind, music
- Digital thermostat panel
- Do not disturb/make up room control or indication
- Doorbell activation

Technical Specifications

- Cabling – TIEV 6 core
- Power – 12 volt dc
- Ambient temperature operation range – 0° to 40° C
GLASS SERIES

ELECON’s Glass Series fuses advanced switch technology and striking panel design. Each switch’s highly sensitive capacitive surface responds to the lightest pressure – and instantly the illuminated screen comes alive in bold colors, sharp images and easily legible text. Panel layouts are fully customizable according to symbol, text and color preference.

Features
Low-voltage wiring for safe operation
Inexpensive installation
Multi-way switching for full function control anywhere in room
Customizable elements:
• Size and shape
• Color of device components as well as button and LED illumination
• Text language and symbol/icon type

Application
• Lighting control including mood effect, dimmer, night light, master on/off
• Room control including fan, curtain/blind, music
• Digital thermostat panel
• Do not disturb/make up room control or indication
• Doorbell activation

Technical Specifications
Size – 8.2 x 8.2 cm (standard)
Finish – 5 mm super-clear glass
Button diameter – 1.7 cm
Maximum buttons per panel – 4
Cabling – TIEV 4 core
Power – 12 volt dc
Ambient temperature operation range – 0° to 40° C
GLASS SERIES : ROOM SIGNAGE

Glass Series exterior room signage features the same state-of-the-art technology combined with sleek styling as in-room panels.

Features
- Low-voltage wiring for safe operation
- Inexpensive installation
- Multi-way switching for full function control anywhere in room
- Customizable elements:
  - Size and shape
  - Color of device components as well as button and LED illumination
  - Text language and symbol/icon type
  - Service panel indicators

Application
- Do not disturb/make up room indication
- Doorbell activation

Technical Specifications
- Button diameter – 1.7 cm
- Maximum buttons per panel – 4
- Cabling – TIEV 4 core
- Power – 12 volt dc
- Ambient temperature operation range – 0° to 40° C
ELECON ACTIVE MULTIMEDIA HUB

ELECON AMH multi-source media hub offers the simplicity of requiring no more than a single HDMI cable from hub to TV. All source signals* including AV and VGA are converted to an HD signal and sent via HDMI. For guests, this means no need to access complicated menus via TV remote control in order to change source type – instead, any source switch can be made directly at the hub. Fixed size and function with customizable panel color. *Please note ELECON AMH provides USB device Play and Charge capability but a separate cable from hub to TV is required. Capability also requires compatible TV with CEC function. ELECON technicians will be glad to confirm compatibility with TV make and model.

Features

• Stylish and Customizable Appearance
  Hub components are customizable to each property’s requirements for blending with hotel décor. Style features include new aluminum finish in range of colors. The hub’s radiused panels likewise can be matched to that of major switch and socket brands for consistency.

• Convenient Bluetooth Access
  Advanced Bluetooth module provides quick connection for enjoying stereo music through TV sound system.

• Multiple Audio/Video Interface
  Hub provides VGA, AV, HDMI, USB and Bluetooth connectivity.

• HD Conversion Via Single Cable
  Simpler, neater design allows for easy installation and eliminates cord clutter.

• Plug and Play
  Auto-detect function makes device connection quick and convenient.

• 1080P HD Video Transmission
  Dual-channel technology ensures full HD video transmission up to 1080p.

• Play and Charge Through USB
  USB media playback including video and device charging capability.*

• Integrated Internet Access
  Convenient wired internet access through standard RJ-45 interface.

*Compatible TV with CEC function required.
ELECON CMH provides a low-cost solution for hotels requiring specific exterior configurations to match the room interior design. Hub panel capability can be tailored by adding or removing various connector types according to components present, while panel appearance is likewise fully customizable. Connection types include: universal power plug, HDMI, AV RCA, VGA, audio 3.5 mm, USB Play and Charge, telephone, and broadband internet. Panel material choices include aluminum, acrylic, glass and Rowmark. ELECON CMH capability is especially useful near desks and workspaces where cord reach and cord clutter are concerns.
PUBLIC AREA LIGHTING CONTROLS

Well-designed lighting effects define space and establish mood. They also save energy. ELECON controls enhance hotel and resort surroundings with elegant and efficient illumination.

Our customized solutions include preset scenes allowing for quick creation of a desired ambience; light levels likewise can be adjusted within presets for a fine-tuned atmosphere. ELECON’s public area systems fully customizable to specific requirements also ensure easy operation with no more than a touch of each control panel’s vibrant symbols and graphics.
PROJECT REFERENCES

- Sofitel So Bangkok
- Sofitel Phokeethra Kriibi Resort & Spa, Krabi
- Fullman King Power Bangkok
- Fullman Pattaya
- M Gallery, Chiangmai
- Banyan Tree Bangkok
- Banyan Tree Phuket
- Banyan Tree Samui, Suratthani
- Angsana Laguna Phuket
- Radisson Blu Plaza, Bangkok
- Park Hyatt Siem Reap, Cambodia
- Grand Hyatt Erawan, Bangkok
- Centara Grand At Central World, Bangkok
- Centara Grand At Central Plaza, Bangkok
- Centara Grand Beach Resort Phuket
- Centara Grand Beach Huai Hin, Prachuap Khiri Khan
- Centara Grand Mirage Beach, Pattaya
- Centara Grand Phratamnak, Pattaya
- Dusit Thani Bangkok
- Dusit Thani Pattaya
- Dusit Thani Laguna Phuket
- Dusit D2 Chiang Mai
- Dusit Polo, Huai Hin
- Fourseason Hotel Bangkok
- Crowne Plaza Bangkok
- Crowne Plaza Nha Trang Nha Trang, Vietnam
- JW Marriott, Bangkok
- Pattaya Marriott Resort And Spa, Pattaya
- Renaissance Phuket Resort & Spa, Phuket
- Rayong Marriott Resort & Spa, Rayong
- Grand Millennium Sukhumvit, Bangkok
- Okura Prestige Bangkok
- Hilton Phuket Acadia Resort & Spa, Phuket
- Sheraton Grande, A Luxury Collection Hotel, Bangkok
- The Westin Grande Sukhumvit, Bangkok
- Sheraton Pattaya Resort, Pattaya
- The Westin Siray Bay Resort And Spa, Phuket
- Plaza Athenee, A Royal Meriden Hotel, Bangkok
- Le Meridien Bangkok
- Le Meridien Suvarnabhumi Golf Resort & Spa, Bangkok
- Le Meridien Phuket Beach Resort, Phuket
- Le Meridien Khao Lak Beach & Spa Resort, Phang Nga
- Le Meridien Chiang Rai Resort
- The Landmark Bangkok
- Anantara Resort & Spa, Samui
- The Sukhothai (Lhw), Bangkok
- Swissotel Le Concorde, Bangkok
- 137 Pillars House, Chiang Mai
- Hansar Samui Resort And Spa, Surat Thani
- Al Raha Beach Resort, Dubai
- One°15 Marina Club, Singapore
- Vinperl Luxuary (Da Nang And Nha Trang), Vietnam
- Sunway Pyramid Hotel, Malaysia

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