



'INTERRA

— *Developer of Uniqueness* —

↳ SMART HOTEL SOLUTIONS

New Trend Hotel Solutions

03 - Energy Management By Interra

04 - Energy Saving By Interra

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ENERGY MANAGEMENT BY INTERRA

Energy Management Applications:

- Interra provides complete room control of heating and cooling systems and electrical systems.
- Interra automates the energy management in the rooms by hotel scenarios and reduces the costs to the optimum levels.
- Interra can control the temperature as well as monitor and control the air conditioner and heat pump units.
- Interra Energy Management solution ensures that the energy level remains within the given limits.
- Interra can be connected to single and three phase smart digital meters with all the possibilities it provides.



ENERGY SAVING BY INTERRA

Maximum efficiency in energy saving with Interra KNX Solutions

- Uncontrolled energy consumption in hotel rooms causes unnecessary high costs.
- Interra's modern smart building technology based on KNX bus and communication systems provides up to 50% energy savings.
- Interra KNX systems meet all the requirements of the top Energy Performance Class for building automation according to EN 15232.



ENERGY SAVING BY INTERRA

How much energy savings do Interra smart building systems provide?



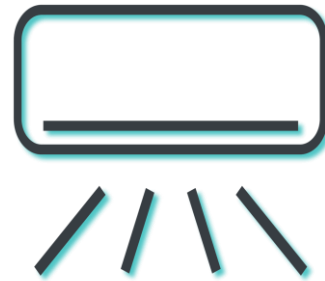
%40

Curtain / Blinds
Shading Control



%60

Lighting
Control



%60

Heating / Cooling
HVAC Control



%60

Personalised
Room Scenarios

CENTRALIZED MONITORING AND CONTROL BY INTERRA



Lighting, Curtain and HVAC Control

- Interra provides continuous and accurate monitoring of the room temperature.
- Interra controls the heating, ventilation and air conditioning to provide optimum temperature and air quality for the guests.
- Along with the heating and lighting system, shutter and blinds can also be controlled and all these controls are monitored from a single central point.

CENTRALIZED MONITORING AND CONTROL BY INTERRA



Safety and Security

- Interra controls and monitors the door communication systems, emergency call stations and intrusion, water, smoke and gas leak detection alarms for a smart and secure building.

Energy Monitoring and Measurement

- Interra monitors and measures the energy consumption of the assets or subsystems to optimize the electrical system, save energy and perform control actions.

CENTRALIZED MONITORING AND CONTROL BY INTERRA

Control and Monitoring from a Single Center

- Interra central monitoring and control solutions, integrate all subsystems in the building into a single center, to provide energy monitoring and control of the rooms, floors and offices from a single point.
- Interra iNode Logic Server and iBMS Logic Server provide communication with dozens of different protocols and applications.



KNX iNode Logic Server



Integration via TCP/IP



KNX iBMS Logic Server



Integration via USB, TCP/IP or RS Ports



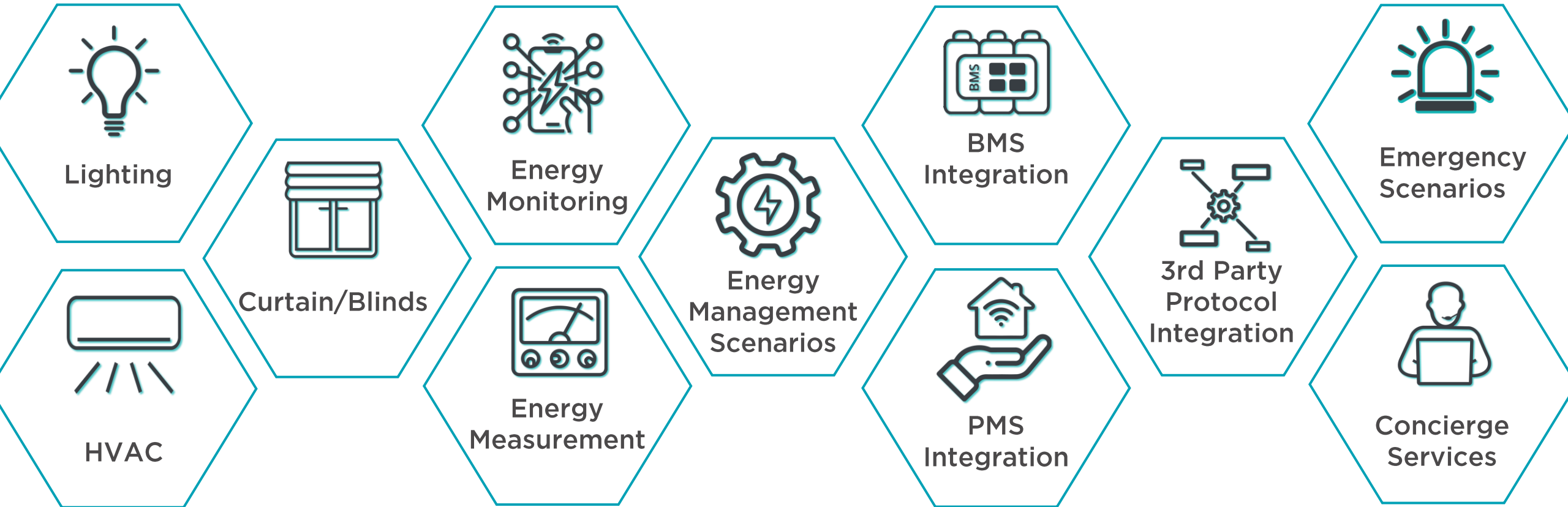


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↳ HOTEL AUTOMATION SOLUTIONS

HOTEL AUTOMATION SOLUTIONS



ENERGY MANAGEMENT BY VIRTUAL CARD HOLDER



↳ Exceptional Guest Experience and Maximum Energy Efficiency in Hotel Applications



How Does Virtual Card Holder Work?



When moving in or out from the room, magnetic door contact sends an info to the Interra Presence Sensor. When the info received, the sensor activates the energy of the room and starts scanning inside.

If the presence continues to be detected in the room within the specified time, the energy remains on.

If there is no presence in the room within the specified time, the energy of the room is turned off.



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**↳ ENERGY MANAGEMENT
AND HOTEL SCENARIOS**




ENERGY MANAGEMENT AND HOTEL SCENARIOS







---> Stand By Scenario ---> Booked Room Scenario ---> Check-in Scenario ---> Comfort Scenario --->



-  Off
-  Off
-  Closed




-  15° - 18° / 25° - 28°
-  Off
-  Closed




-  22° - 25°
-  Off
-  Closed





-  Motion Detected
-  24°
-  On
-  Opening

Non Booked Scenario <-- Check- Out Scenario <-- Housekeeping Scenario <-- Empty Room Scenario <--

-  Off
-  Off
-  Closed

-  Off
-  Off
-  Closed

-  Off
-  Off
-  Opening

-  No Presence
-  15° - 18° / 25° - 28°
-  Off
-  Closing



A decorative graphic on the right side of the page consisting of numerous thin, teal-colored lines that curve and flow downwards, creating a sense of movement and depth.

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INTERRA HOTEL PRODUCTS

Interra 4Touch – 4" KNX Touch Panel



Main Functions:

- Configuration via ETS
- Software Update via USB
- Personal View Main Screen (1x2, 2x2, 4x2)
- Dry Contact Signal Output
- Ability to Perform All KNX Based Controls
- Easy Assembly with Monoblock Design
- 2 Digital, 2 Analog Inputs and 1 Relay Output

Interra 4Touch Functions:

Lighting Control
Music Player
Timer Scenarios

RGB Dimming
Air Conditioning
Timed Screen Lock

Adjustable White
Curtain/Blinds
Combination lock



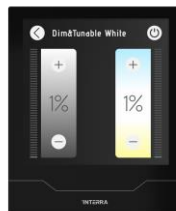
Shortcuts



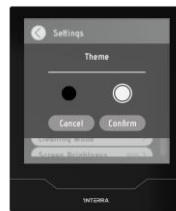
Curtain



Thermostat



Dimming &
Tunable White
Control



Setting

Interra 4Touch – 4" KNX Touch Panel



Main Functions:

- Feedback Ringtone
- 30V KNX Supply or 12V/30V DC Power Supply
- Built-in Temperature, Humidity and Air Quality Sensor
- Built-in Luminous Intensity and Proximity Sensor
- Touch IPS LCD Display
- 84 x 100mm Dimension
- Suitable for Standard Single Flush Mounted Frames

Interra 4Touch Functions:



Lighting Control
Music Player
Timer Scenarios

RGB Dimming
Air Conditioning
Timed Screen Lock

Adjustable White
Curtain/Blinds
Combination lock

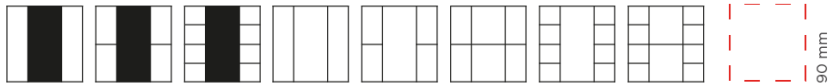
Interra iSwitch+ Room Controller



Main Functions:

- Built-in Temperature, Humidity, Brightness and Air Quality Sensor
- 8 Different Model Options
- 2 Main Models with VA-Display LCD and Without LCD
- Adjustable RGB Feedback Lights
- 2 Hidden Up and Down Buttons Under the LCD Frame
- 2 Adjustable Inputs (Digital/Analog)
- Easy Assembly with New Monoblock Design

Model Options



Aluminium Series



Plastic Series



Plexi-glass Series



Stainless Steel



Functions:

Switching
Thermostat Controls
Step Switching

Toggle
Scenarios
2 Channels

Dimming
Value (Byte)
Shutter/Blinds

Interra iSwitch+ Room Controller

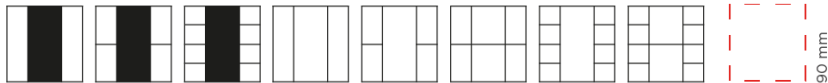


Main Functions:

- Sensitive Press Feeling
- ETS Programming Mode Without Combination
- Master / Slave Thermostat Feature
- Error Tracking on the LCD Screen
- Energy Saving Feature*

*Automatic AC Scenarios by the Information from the Contacts.

Model Options



Aluminium Series



Plastic Series



Plexi-glass Series



Stainless Steel



Functions:

Switching
Thermostat Controls
Step Switching

Toggle
Scenarios
2 Channels

Dimming
Value (Byte)
Shutter/Blinds

iSwitch+ Metal Series



Black Aluminum



Bronze Aluminum



Natural Aluminum



Gold Aluminum



Natural Stainless Steel

iSwitch+ Plastic Series



Jet Black Plastic



Glossy White Plastic



Matt White Plastic



Metallic Gray Plastic



Matt Anthracite Plastic



Black Plexiglass

Interra Just Touch KNX Room Controller



Main Functions:

- Built-in Temperature and Humidity Sensor
- 5+1 Control Pages
- Up to 30 Control Points
- Complete Thermostat Control
- 2mm Touch Capacitive Glass Screen
- 8 Touch Buttons
- Black and White Color Options
- 1 Digital and 1 Adjustable Input (Digital/Analog)

Functions:

Switching
Thermostat Controls
Step Switching

Toggle
Scenarios
2 Channels

Dimming
Value (Byte)
Shutter/Blinds

Interra Pure Touch Room Controller



Main Functions:

- Built-in Temperature, Humidity and Brightness Sensor
- 2mm High Quality Glass Design
- 2, 4 and 8 Button Options
- Black and White Color Options
- 1 Digital and 1 Adjustable Input (Digital/Analog)
- Easy Assembly with Monoblock Design

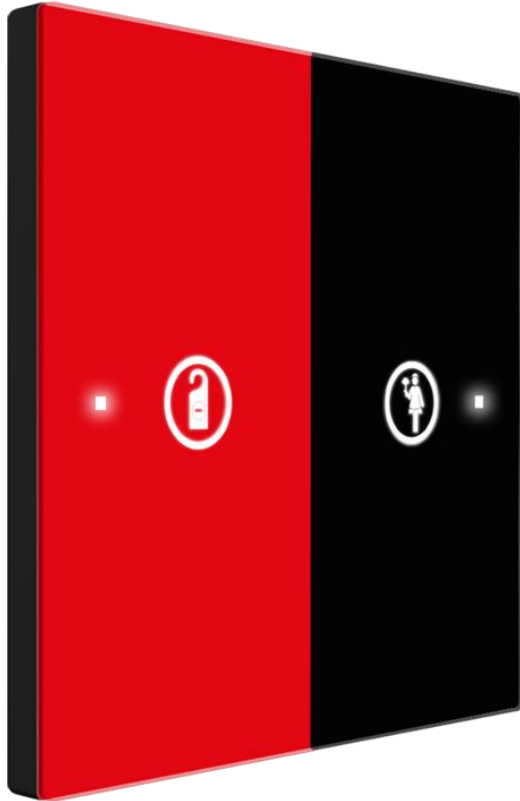
Functions:

Switching
Thermostat Controls
Step Switching

Toggle
Scenarios
2 Channels

Dimming
Value (Byte)
Shutter/Blinds

Interra Pure Touch DND Controller



Main Functions:

- Special Design for DND and MUR Control
- Built-in Temperature, Humidity and Brightness Sensor
- 2mm High Quality Glass Design
- 1 Digital and 1 Adjustable Input (Digital/Analog)
- Easy Assembly with Monoblock Design

Functions:

Switching
Thermostat Controls
Step Switching

Toggle
Scenarios
2 Channels

Dimming
Value (Byte)
Shutter/Blinds

Interra KNX DND Module



Main Functions:

- 2 Different Model Options, Glass and Plexiglass
- Direct Communication with KNX Bus
- LED Backlight Indicators
- LED Backlight Logo and Room Number
- Bell Button
- Customizable Design (Font, Logo and Icons)
- Compatible with Standard Double Flush Mounting Case
- 3rd Display Option for Special Projects



Interra KNX Touch Panels



In hotels, Interra touch panel series is mostly used in common areas and conference rooms due to the wide area control it provides.

Main Functions:

- 2 Main Models, 7" and 10.1"
- Minimalist and Specially Designed 5mm Thickness
- One-Stop Whole Building Control
- Camera, Alarm and Intercom Integrations
- Mobile Control
- Timer Scenarios
- 3 Outputs (5A) / 3 Inputs



Interra i7+ KNX Touch Panel



Interra i7+ series, which has the same features as the series with Interra classic touch panels, is widely preferred in hotel projects with its vertical and minimal design.

Main Functions:

- Built-in Thermostat
- Minimalist and Specially Designed 5mm Thickness
- One-Stop Whole Building Control
- Camera, Alarm and Intercom Integrations
- Mobile Control
- Timer Scenarios
- 3 Outputs (5A) / 3 Inputs

Interra KNX Sensor Series



A unique combination of safety, efficiency, and comfort with the thinnest design in its class. With the new Interra KNX Sensor series, functions like energy and lighting management, heating, and air conditioning in indoor spaces can be integrated into building automation systems in an innovative and reliable way.

Main Functions:

- Presence, Brightness, Movement, Internal and External Temperature Detection.
- 4 Independently Configurable Presence Channels for Constant Control Application.
- 5 Independent Logic Blocks (“AND”, “OR” and “XOR”)
- Integrated Virtual Card Holder function for Hotel Projects
- Master / Slave Mode
- 2 Digital Inputs and 1 Analog Input



KNX Mid-Range +
Presence Sensor



KNX Mid-Range
Presence Sensor



KNX Wide-Range
Presence Sensor

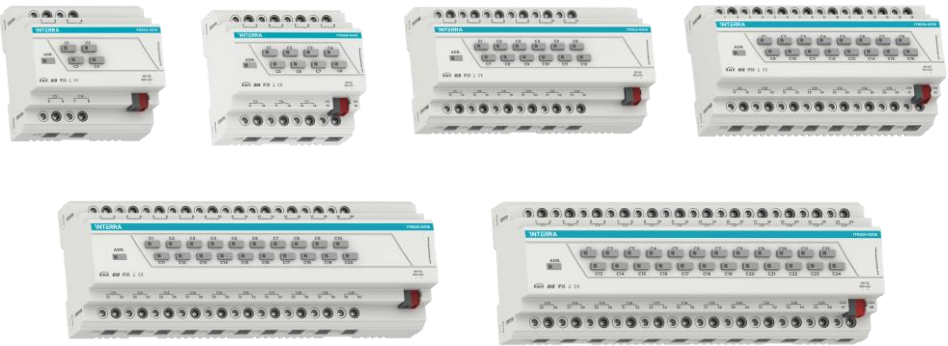
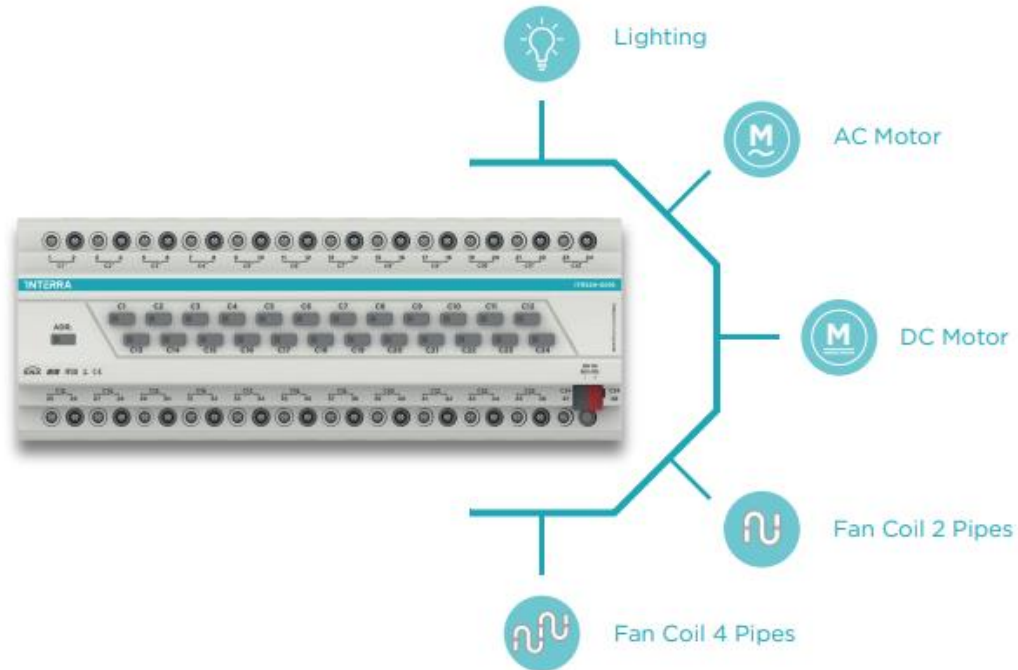


KNX High-Bay
Motion Sensor



KNX High-Bay +
Motion Sensor

Interra KNX Combo Actuator Series



Interra Combo Actuator series provide On / Off room control and fan coil control.

Main Functions:

- On / Off Lighting and AC & DC Motor Control
- 2 and 4 Pipe Fan Coil Control
- 6 Different Models
- Different Channel Options from 4 to 24
- Manual Channel Control with the Buttons on the Device
- Configuration by ETS
- Supply Over KNX Bus
- 16 A @250 V AC Relay Capacity
- Max. 20 mA Current Consumption

Interra KNX Universal Dimmer Actuator Series



Main Functions:

- 300 and 250 W Output Power (R, L, C)
- Up to 1000 Watt Output Power with Parallel Connection
- Temperature and Short Circuit Protection
- Error and Status Notification with RGB Channel LEDs
- Load Presence and Load Type Detection
- Programming Mode without 230V Supply
- Incandescent, Low and High Voltage Halogen, Dimmable LED Retrofit and Dimmable Compact Fluorescent Lamp Control
- Splitting the Dim Curve into Up to 5 Regions
- Adjusting the Dimming Speed of Each Zone Separately
- 8 Digital and 2 Analog Inputs
- Using Analog Inputs with Resistive Sensors (NTC, LDR)



KNX Universal Dimmer Actuator - 2 Ch



KNX Universal Dimmer Actuator - 2Ch (w/8 Digital, 2 Analog Input)

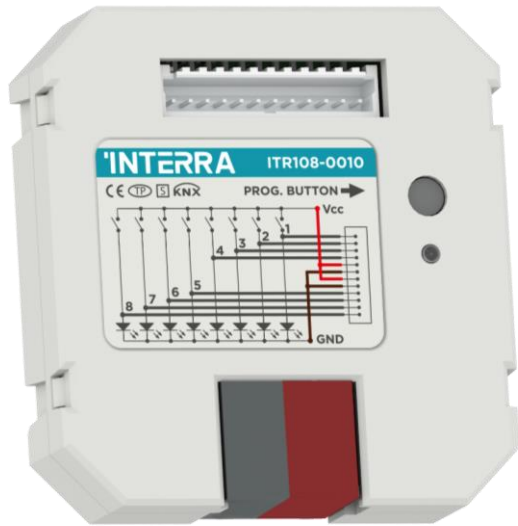


KNX Universal Dimmer Actuator - 4 Ch



KNX Universal Dimmer Actuator - 4Ch (w/8 Digital, 2 Analog Input)

Interra KNX Binary Input Modules



KNX Binary Input
8 Channel



KNX Binary Input
2 Channel



KNX Binary Input
4 Channel



KNX Binary Input
6 Channel

Interra KNX Universal Interfaces act as an interface for operating KNX systems via conventional buttons, switches or dry contacts and processing binary signals.

Main Functions:

- Supply Over KNX Bus
- 2, 4 and 6 Channel Options
- Assigning a Different Function to Each Channel

Functions:

- Switching
- Dimming
- Thermostat
- Shutter/Blind
- 12 Channel
- Value Operation

Interra KNX Binary Input Module - 12 Channel



The 12-Channel KNX Input Module serves as an interface for operating KNX systems via conventional buttons, switches or dry contacts and processing binary signals.

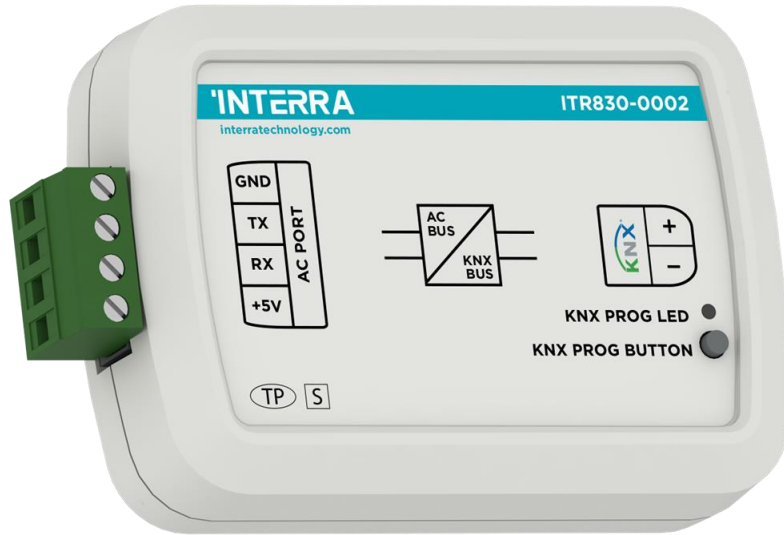
Main Functions:

- 10 Digital Inputs / 2 Analog Inputs or 12 Digital Inputs
- Supply Over KNX Bus
- 3 Independent Logic Blocks and 5 Object Outputs
- 2 Different Thermostat Functions

Functions:

- Switching
- Dimming
- Thermostat
- Shutter/Blind
- 2 Channel Mode
- Value Operation

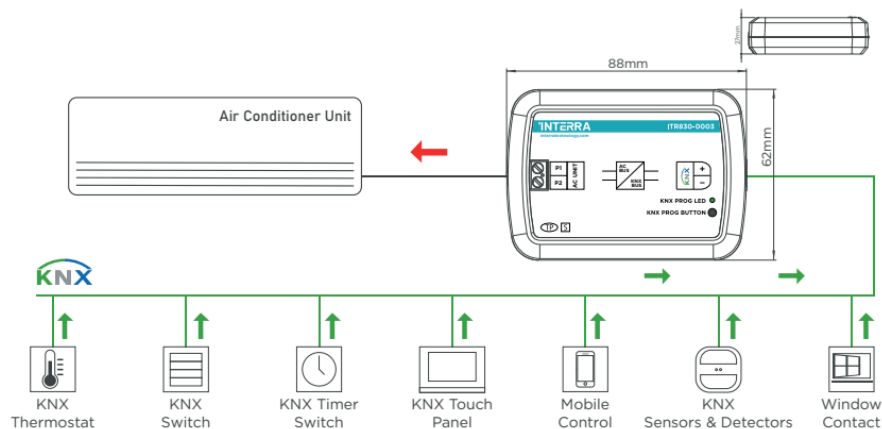
Interra AC - KNX Gateway Series



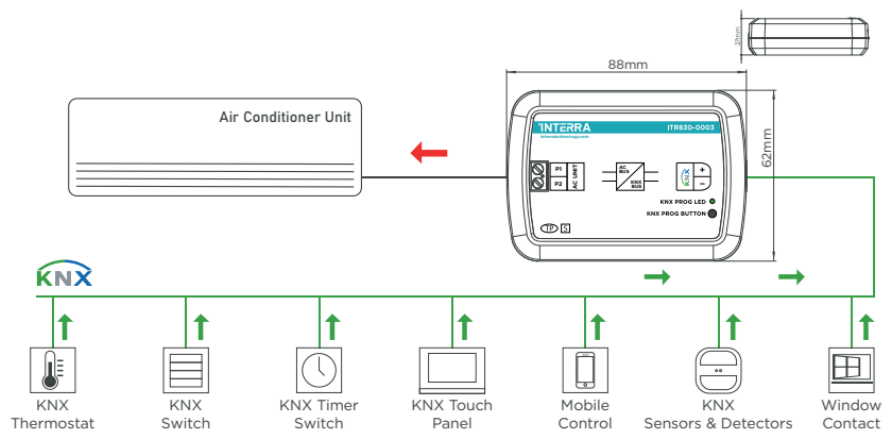
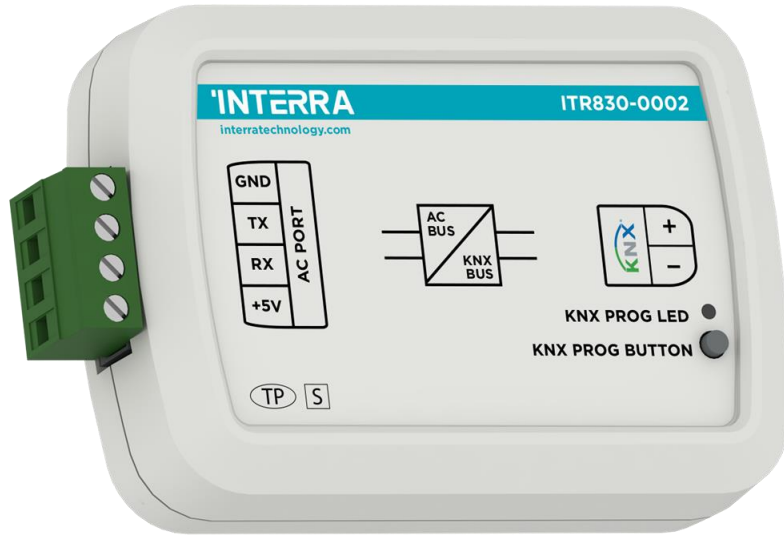
Interra KNX Air Conditioning Gateways monitors and controls all function parameters of air conditioners over KNX bus.

Main Functions:

- Bidirectional Communication Between ACs and KNX Protocol
- Easy Installation Advantage
- 20 Different Brands and 24 Different Product Types
- Energy Efficiency with Full Integration
- Manufacturer Approved Products
- 4 Logical Advanced Parameters
- 8 Advanced Converter Parameters
- Monitoring Air Conditioner Error Notifications on KNX Bus



Interra AC - KNX Gateway Supported Brand List



Interra KNX / DALI Gateway



Interra KNX / DALI Gateway controls the DALI lighting protocol over KNX in hotel projects. DALI is the most preferred lighting protocol for commercial applications.

Main Functions:

- Built-in DALI Power Supply
- 2 Different Channel Types, 2x64 and 1x64
- 2 Different Main Models with or without Ethernet
- Emergency Lighting Control
- Single, Group and Broadcast Control
- Programming and Commissioning via ETS
- Fault Check and Remote Update
- RGB, RGBW and Tunable White Control

Interra KNX Line Coupler



The basic function of Interra KNX Line Coupler is to combine two KNX TP lines or repeat without filter by providing galvanic isolation between different lines. Its aim in hotel projects is to connect rooms to the central line.

Main Functions:

- Prevent Device Configuration from Downline
- Blocking Device-Focused Telegrams
- Monitoring Downline Traffic
- Enable / Disable Telegram Filtering
- Reduced Resends Option
- Diagnostic Functions

Interra KNX / IP Router



Interra KNX/IP Router is a KNXnet/IP routing and tunneling device that connects the KNX line and the Ethernet network.

Main Functions:

- KNX IP Line Coupler without Power Supply
- Addressing All Devices in the KNX System
- Temporary Access from ETS to Other Lines
- Error and Fault LEDs
- KNXnet/IP Routing Multicast connection
- KNXnet/IP Tunneling' Unicast: 6 connections.
- Web Server Feature: Remote Software Update

iNode Logic Server

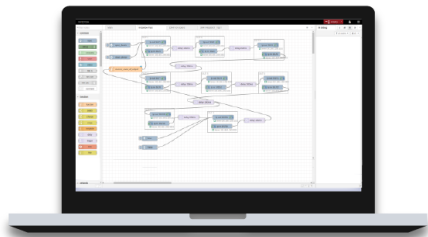


Interra iNode Logic Server is designed to communicate between devices using different protocols and send telegrams and data to BMS. It creates complex control configurations and scenarios between different protocols. It provides fast and easy installation with node-based dynamic drag and drop editor.

Main Functions:

- Supports up to 10,000 different data points
- 3 Outputs and 3 Inputs - 2 Models Based on KNX TP + IP or IP
- Configuration with Embedded Web Interface
- Customizable User Interface (Dashboard)
- Predefined and Ready to Use Nodes

Node Based Dynamic Logic Server



Drag & Drop Editor

Event Based Programming
Node Based Logic Editor
Functional Programming Support

iBMS Logic Server



Interra iBMS Logic Server acts as cross-standard gateway, cloud service integrator, complex network logic engine, easy-to create visualization platform, IP Router and much more. Further, It supports iOS Siri, Google Voice and Amazon Alexa control via native apps available in App Store and Google Play.

Interra iBMS Logic Server is your most straightforward way to program complex logic in KNX/EIB, Modbus, BACnet, and networks. It will enable you to efficiently customize building automation processes, quickly delivering unlimited flexibility benefits to end users in a cost-effective way.



iBMS Logic Server

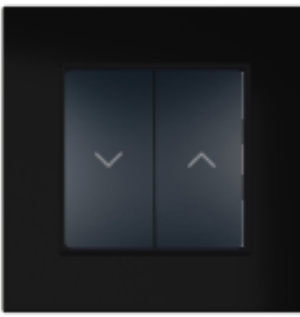
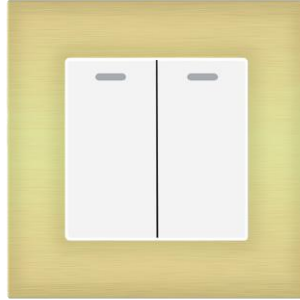


iBMS is an embedded platform with integrated Ethernet, USB, KNX/EIB, and Serial interfaces. It allows us to use it as a cross-standard gateway, logic engine, visualization platform, and IP Router. Scripting templates provide a user-friendly, flexible configuration interface and integration with cloud/web services, 3rd party devices.

Applying custom scripts, iBMS can simultaneously act as a thermostat, security panel, lighting controller, etc. iBMS application store and external app development possibility allow to extend device functionality and adjust to a specific market segment.



Interra EU, UK and Universal Switch & Socket Series



Interra offers 3 different switch and socket series as EU, UK and Universal type. They are designed specifically for the needs of the hotels and fully compatible with Interra automation switches and provide a complete aesthetic.

Frame Series:

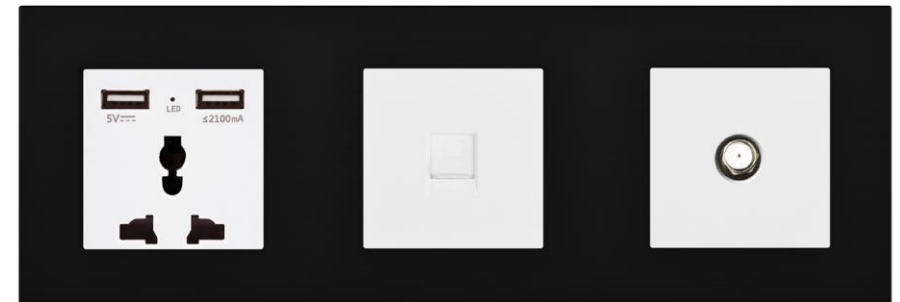
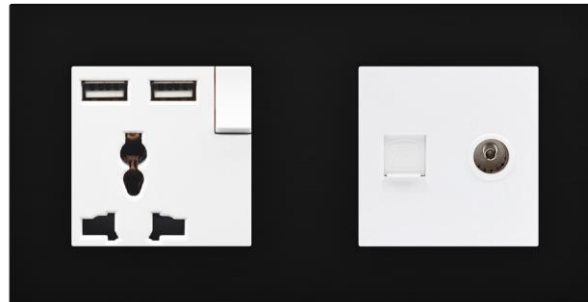
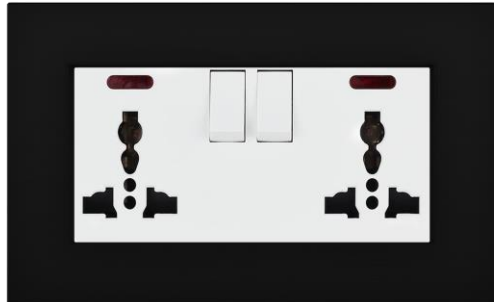
- Bronze Aluminium
- Natural Aluminium
- Black Aluminium
- Gold Aluminium
- Black Plexiglass
- White Plexiglass

Interra Universal Switch & Socket Series

- UK & Universal Bronze Aluminium Switch and Socket Series



- UK & Universal Black Aluminium Switch and Socket Series

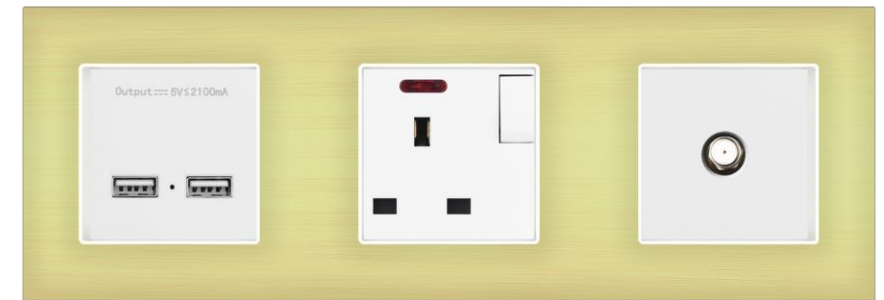
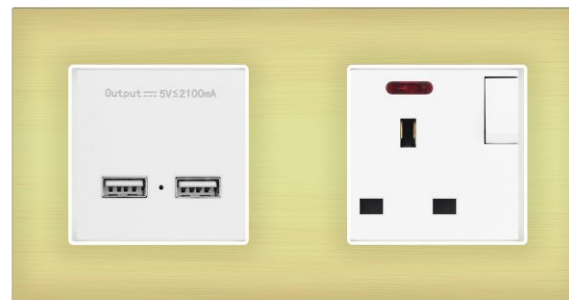
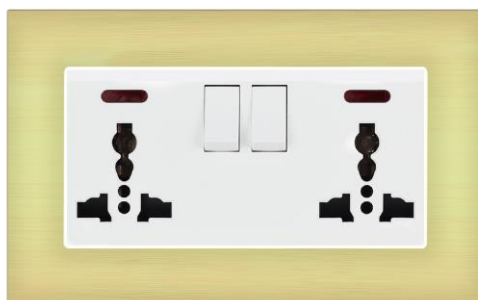
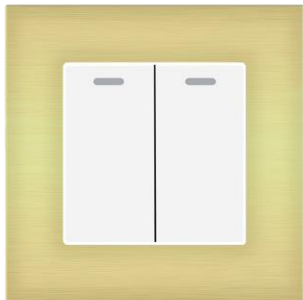


Interra Universal Switch & Socket Series

- UK & Universal Natural Aluminium Switch and Socket Series



- UK & Universal Gold Aluminium Switch and Socket Series



Interra Universal Switch & Socket Series

- EU - C / F Type Bronze Aluminium Switch & Socket Series



- EU - C / F Type Black Aluminium Switch & Socket Series



Interra Universal Switch & Socket Series

- EU - C / F Type Natural Aluminium Switch & Socket Series



- EU - C / F Type Gold Aluminium Switch & Socket Series



Interra Universal Switch & Socket Series

- EU - C / F Type White Plexiglass Switch & Socket Series



- EU - C / F Type Black Plexiglass Switch & Socket Series



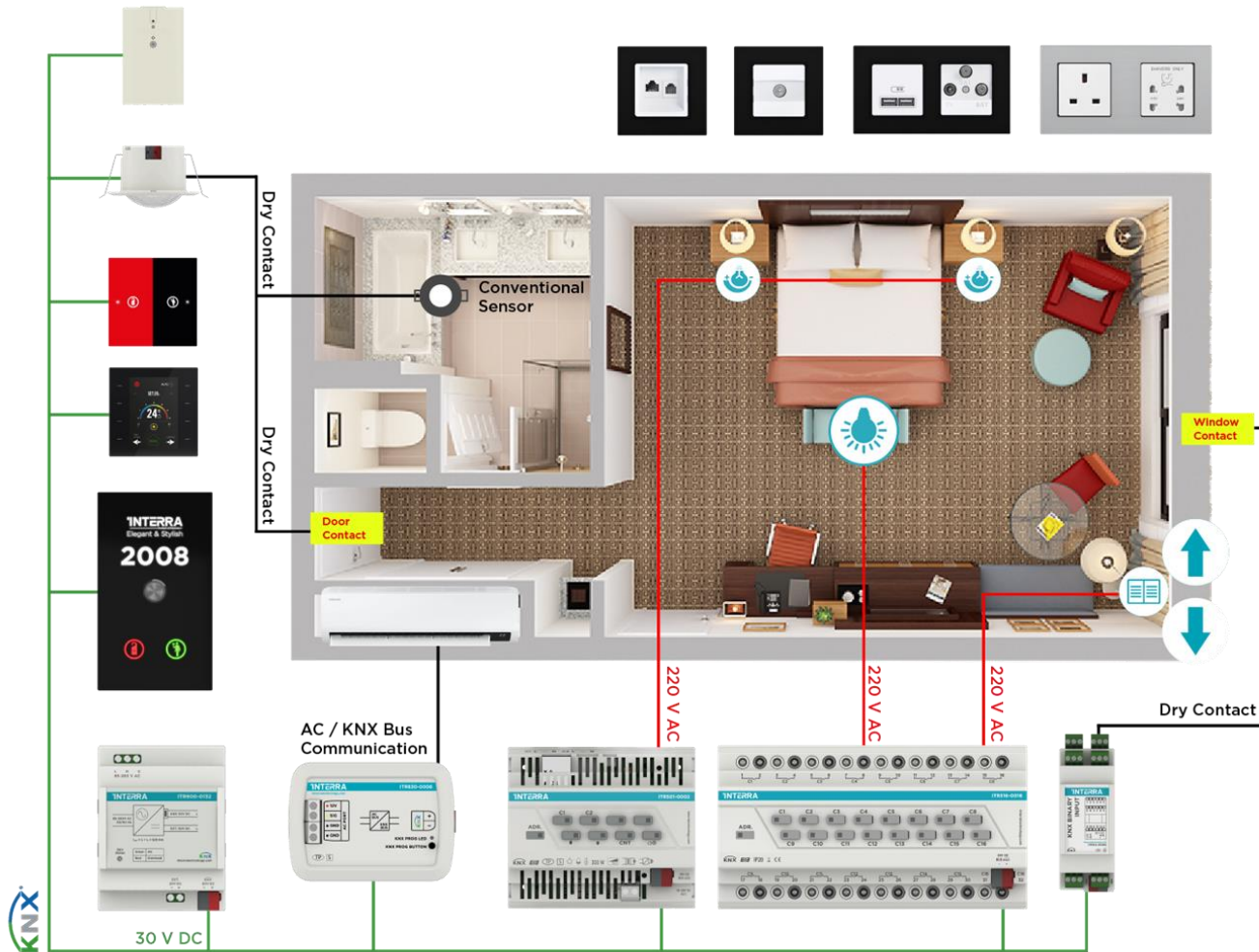


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↳ ROOM AND FLOOR SOLUTIONS

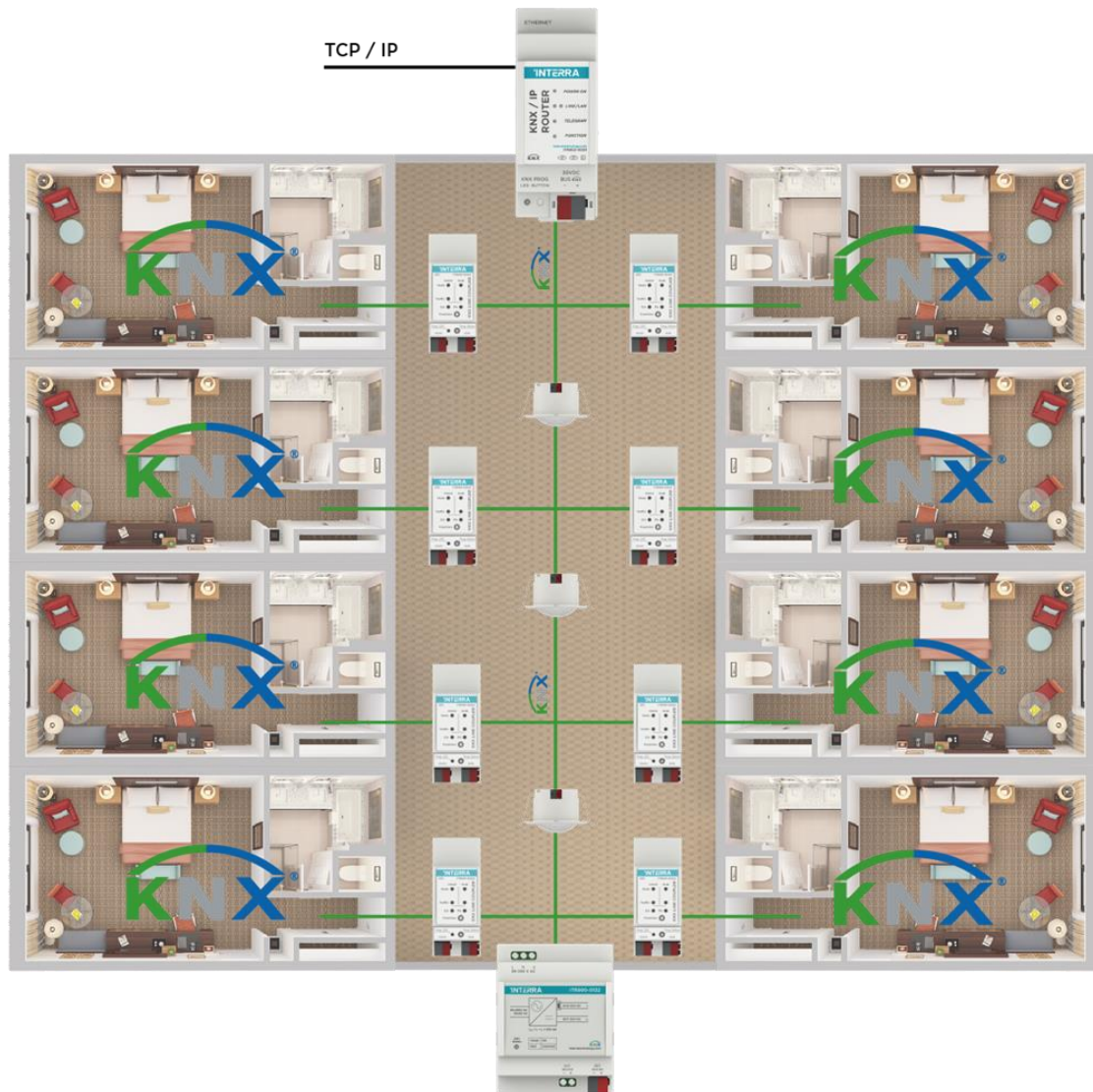
KNX Smart Hotel Room Solution



Example In-Room Automation Solution:

- Energy Management with Sensor
- Lighting Control
- Dimming Function
- DND / MUR Management
- Just Touch Room Control (Bedside)
- Fully Integrated AC Control
- Curtain / Shutter Control
- When Windows are Open / ACs are Off
- Switch and Socket Solution
- Water Leakage Management

KNX Connection of the Rooms on the Floors

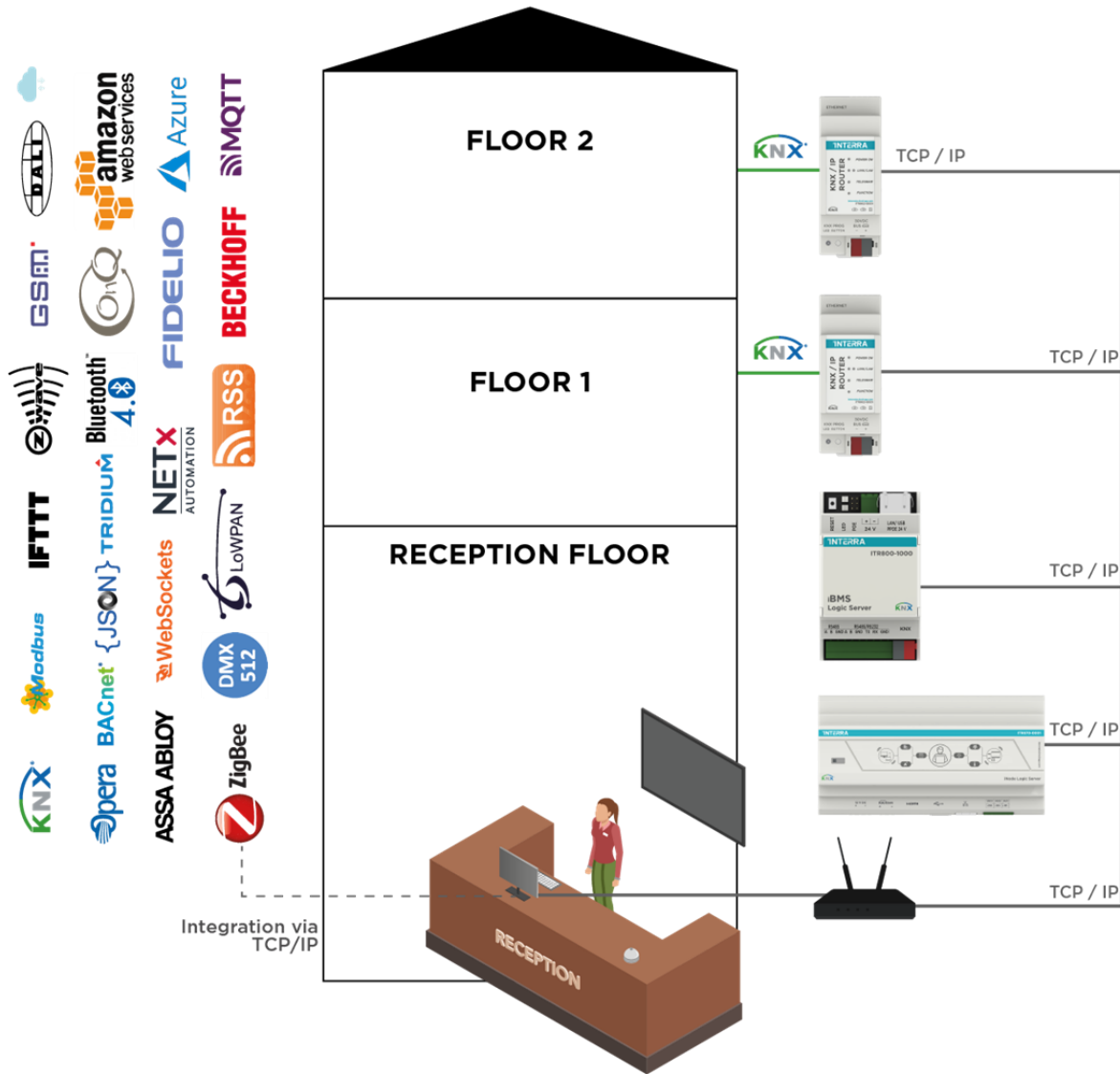


It is the process of connecting the rooms with Interra Line Couplers and creating a KNX bus for the floors.

By adding additional devices such as KNX sensors, corridor lighting can also be connected to the automation system to increase the energy saving with special scenarios. A calm ambiance can be created with the KNX Dimming Actuators or DALI Gateways on corridors.

IP Router connects hotel network and the rooms gathered together on the KNX Floor line.

Connection of the Floors to the Hotel Network

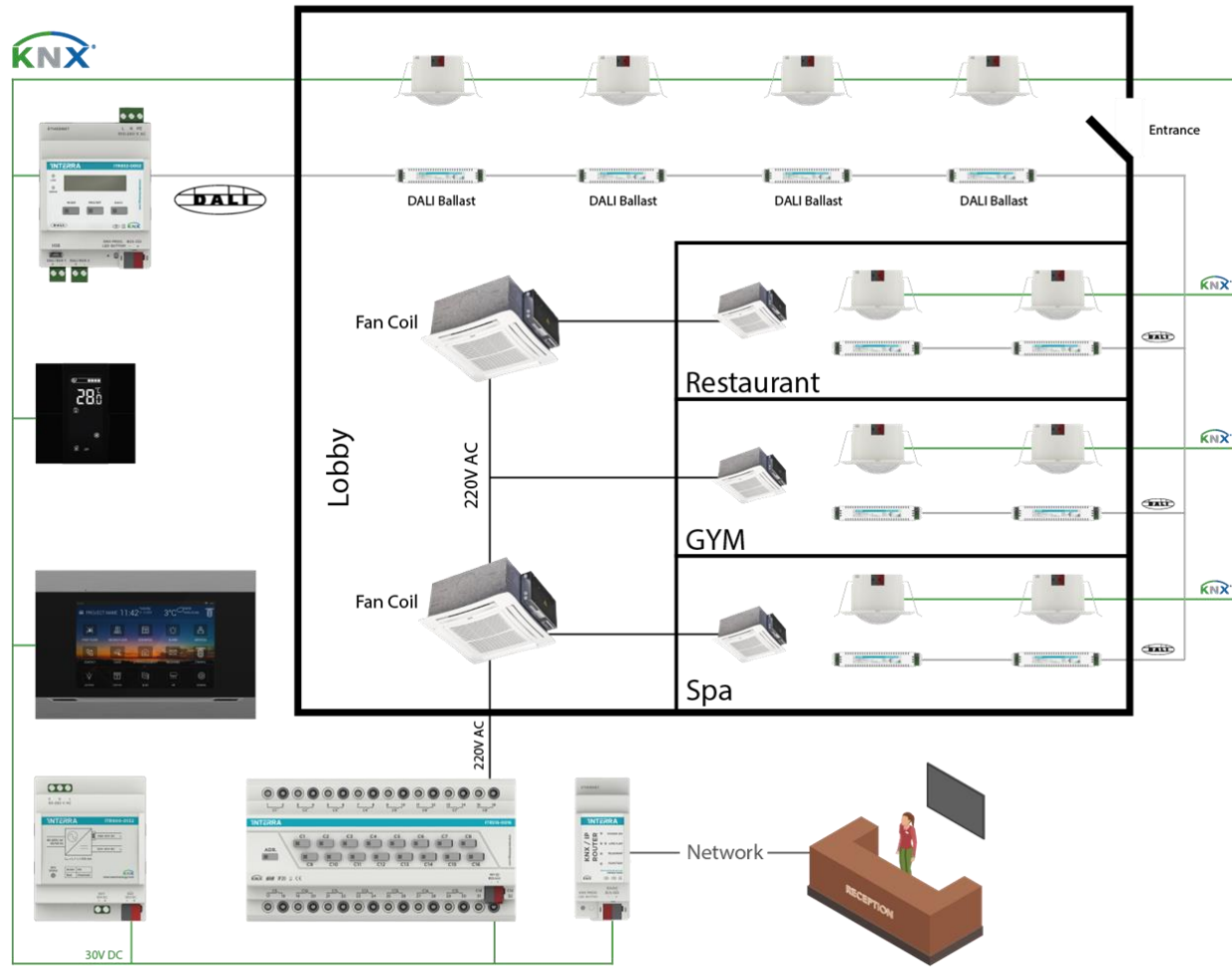


The infrastructure required for central control, monitoring and integration are set up as shown in the figure by connecting the rooms gathered on each floor to the main center network.

iBMS Logic Server and iNode Logic Server devices within the same network easily provide all kinds of integration and monitoring from smart door handles to energy analyzers and PMS systems.

All kinds of complex scenarios can be created between all these systems.

Public Area HVAC and Lighting Control



Thanks to the Interra DALI infrastructure, the lighting used in the common areas is controlled via the KNX line and connected to the central system via the KNX / DALI Gateway.

Systems such as the lighting and fan coil or air conditioner installed in the common areas can be easily controlled via the KNX line installed for the common areas and integrated into the central monitoring and control software, thus maximizing energy savings.



'INTERRA

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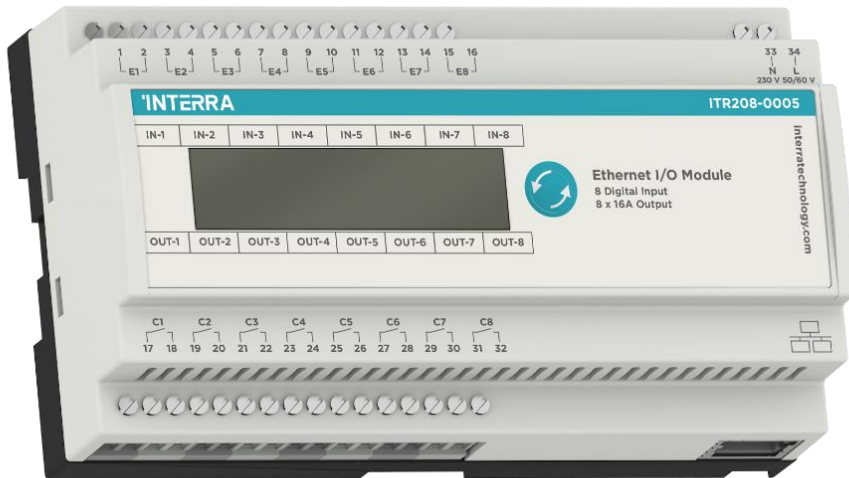
↳ ETHERNET I/O ROOM SOLUTION

Interra Ethernet I/O Module

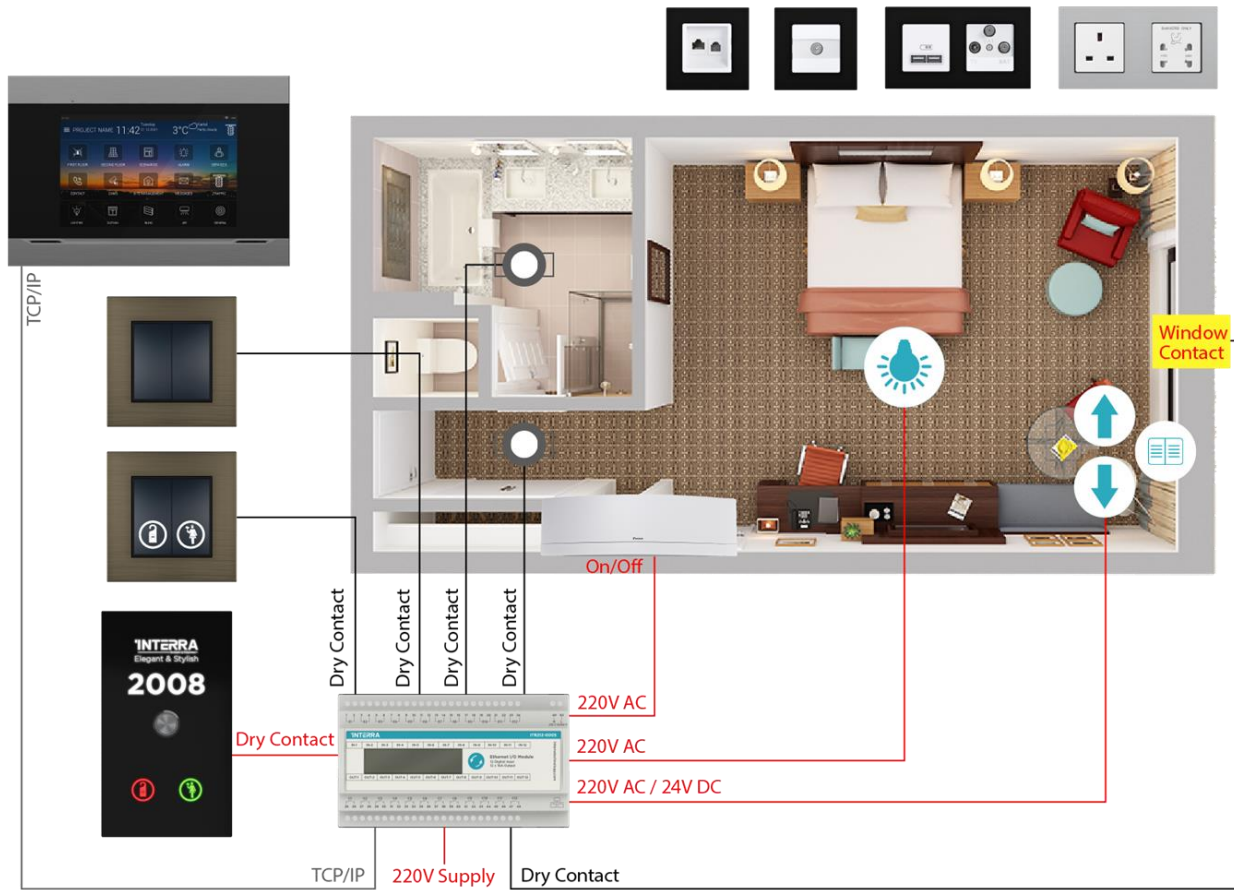
Interra EIO Module is a closed protocol Input / Output control module that communicates over ethernet.

Main Functions:

- 100 - 250 V AC Supply
- 2 Main Models as 8 Channel IO and 12 Channel IO
- 16A Output Relays
- Programming via EIO Configurator
- Time Based Control (Timer)
- Shutter/ Blinds and Lighting Control
- Logical Scenarios
- Last State Protection Memory



EIO Room Solution



It is Interra's EIO solution that is less costly than KNX and works with a closed protocol over Ethernet.

With the inputs of Ethernet I/O Modules, it is possible to create smart rooms and scenarios with traditional products such as magnetic contacts, buttons and sensors.

It communicates with Interra Touch Panels directly over ethernet and provides mobile control.

A decorative graphic on the right side of the page consisting of numerous thin, teal-colored lines that curve and flow downwards, creating a sense of movement and depth.

'INTERRA

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↳ REFERENCE PROJECTS

Interra Premium Hotel References

248
Rooms



Swissotel Residences Çeşme
İzmir, Türkiye

165
Rooms



Sheraton Grand
İstanbul, Türkiye

230
Rooms



Sinpaş Kızılbük
Muğla, Türkiye

480
Rooms



NG Phaselis Bay
Antalya, Türkiye

179
Rooms



Basqal Hotel
Azerbaycan

300
Rooms



Hyatt Regency
Taşkent, Özbekistan

174
Rooms



Hilton Garden Inn
Erzurum, Türkiye

291
Rooms



NG Sapanca Wellness & Convention
Sakarya, Türkiye

Interra Premium Hotel References

350
Rooms



Ramada Plaza Trabzon Hotel
Trabzon, Türkiye

165
Rooms



Cevahir Hotel
İstanbul, Türkiye

170
Rooms



Divan Hotel
Mersin, Türkiye

241
Rooms



Radisson Blu Hotel Dakar
Dakar, Senegal

165
Rooms



Hilton Double Tree
İstanbul, Türkiye

248
Rooms



Hyatt Regency
İstanbul, Türkiye

84
Rooms



Caresse, a Luxury Collection
Muğla, Türkiye

Rooms



SeaOn Mamaia
Mamaia, Romanya

Interra Premium Hotel References

274
Rooms



Premier Hotel
Odessa, Ukrayna

215
Rooms



Fortina Hotel
Valetta, Malta

553
Rooms



Conrad Hotel
İstanbul, Türkiye

133
Rooms



Ottomare Hotel
İstanbul, Türkiye

320
Rooms



Hilton İstanbul Kozyatağı
İstanbul, Türkiye

259
Rooms



Tuzla Crown Hotel
İstanbul, Türkiye

259
Rooms



Le Meridien Hotel
İstanbul, Türkiye

120
Rooms



Dalaman Hilton Hotel
Muğla, Türkiye

A decorative graphic on the right side of the slide, consisting of numerous thin, teal-colored lines that curve and flow downwards, creating a sense of movement and depth.

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↳ THANKS!