



# 'INTERRA

CERTIFIED R&D CENTER OF AUTOMATION

*Developer of Uniqueness*



## Product Catalogue

2019

[www.interra.com.tr](http://www.interra.com.tr)

# INTERRA



## THE GLOBAL BRAND INTERRA

Australia

Austria

Azerbaijan

Bahrain

Belgium

Bosnia

Cameroon

China

Egypt

Estonia

Finland

France

Germany

Greece

Hungary

India

Indonesia

Iran

Israel

Italy

Jordan

Kingdom Of Saudi Arabia (KSA)

Kosovo

Lebanon

Morocco

Norway

Oman

Poland

Portugal

Qatar

Romania

Russia

Singapore

Spain

Tunisian

Ukraine

United Kingdom (UK)

United Arab Emirates (UAE)

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# INTERRA

CERTIFIED R&D CENTER OF AUTOMATION

*Developer of Uniqueness*

## Each Interra product is designed to be unique.

Interra is a company that develops both software and hardware with its R&D teams experienced in the field of automation. By aiming each product to primarily comply with high-quality standards, the company uses the highest quality components. With this vision, Interra is a leader in the primary local and environmental markets, and is one of the important players in the global arena.

Products that make a difference with research, development ...

Each Interra product is designed to be unique. None of the products in the product palette are ordinary. They have features in their details that make them unique. This is the basic philosophical approach of Interra. It is a great mission in which great experiences are mixed with product parameters such as touch panel, iswitch, combo etc., and form and design.

Complementary products...

Interra has provided the most needed solutions with the products it produces. Be it a residence or a commercial building, you can provide the most optimal solution with Interra.

Business Partnership, Dealership, OEM partnership

Our ethical approach to dealership has made Interra a common brand in a growing geographical area. As a result of our globalization policy, we initiated two years ago, we currently have partnerships in 32 countries. These are shaped by markets and needs and they usually in the form of distributorships, dealerships for integrators, project-based partnerships and OEM partnerships.







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## In the future...

Can we imagine what kind of important changes 50 billion devices will make on the modes of living with their smart programs when they will be able to directly intercommunicate in 2050, many deficiencies will be detected and provided by the next generation smart devices. Devices produced in the new era, that we call the internet age, will be able to meet daily needs on their own by connecting to smart networks, and the integration into mobile services will be available and manageable at all times. The common feature of fast-growing industries in the Internet age is that they determine their customers' lifestyles by creating flexible and enjoyable solutions in the service module thanks to the software programs with which they have equipped it. When product costs are combined with included service modules, how much the added value has increased can be understood from everyday consumables.

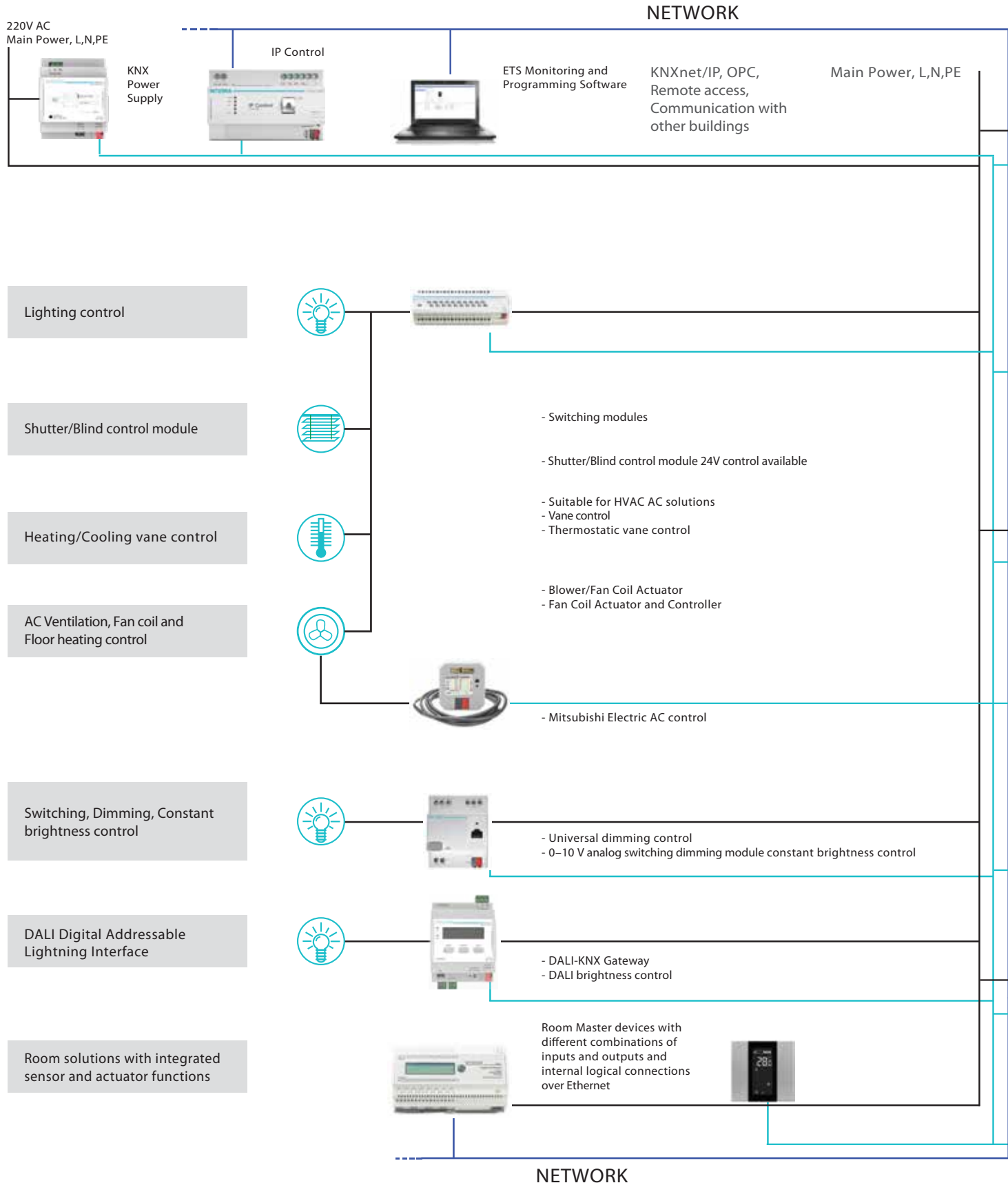
In the future, Interra aims to develop sustainable solutions with quality products and dynamic and flexible products that customers can always use.

Building designers did not use to mention about energy saving in buildings much; however, today it is prominent among the issues that need to be considered important and taken seriously throughout the world. It is becoming more and more important that designed products or places should be designed to use natural resources at a minimum level. While Interra engineers are developing new systems, they develop their product visions in a way that is respectful to eco-environment, and according to regulations determined by global standards.

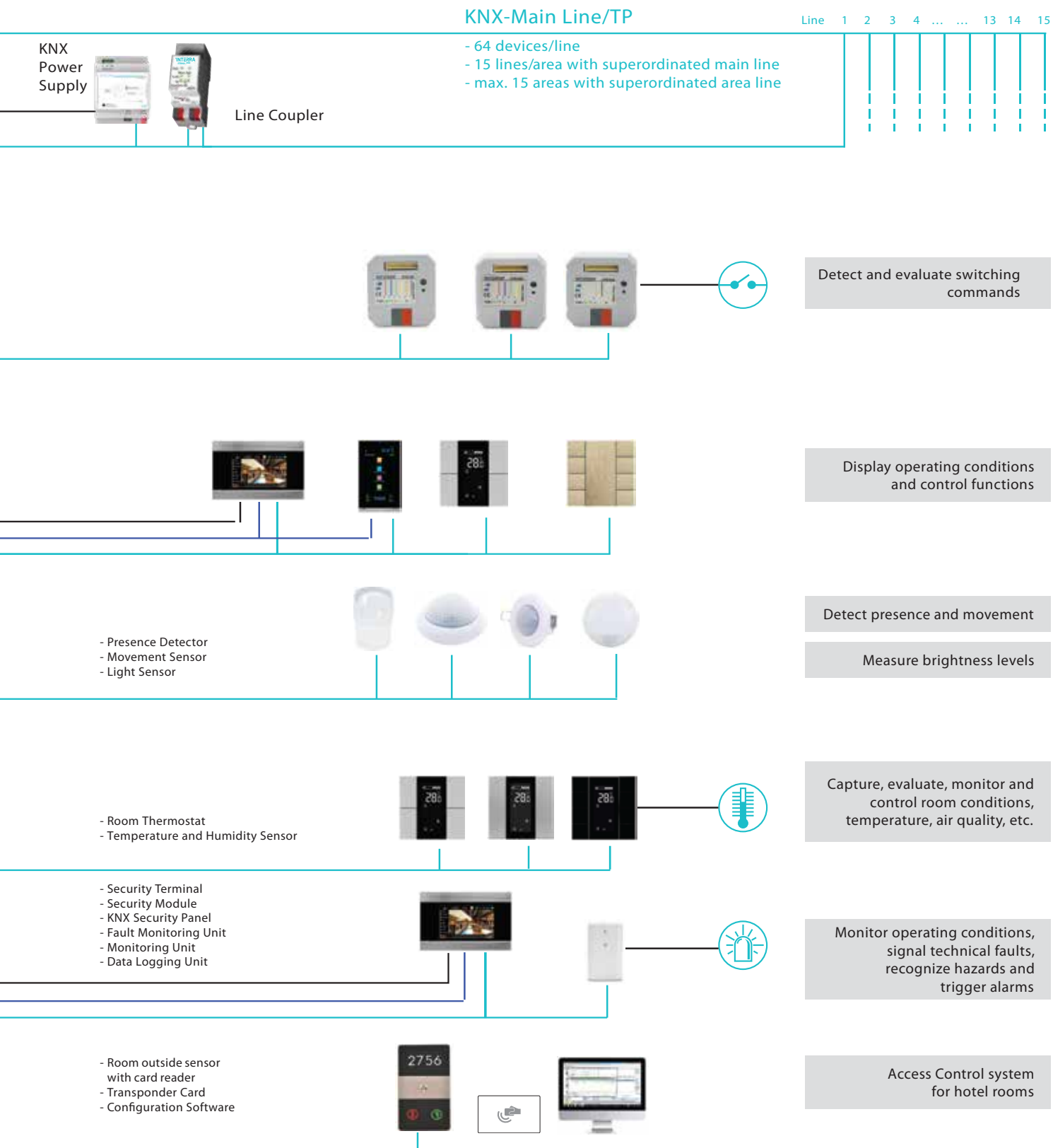
Differences can be met as long as the systems and service modules offered in the market are of global standards. Customers prefer solution partners that can integrate, create brand-independent flexible solutions and have extensive service network, rather than closed solutions. Interra develops integrated solutions for international systems such as KNX, IoT, Bacnet, and Modbus in all of its projects. Thus, without having to be bound by time, it finds a market area in many regions of the world, especially in Europe, with its sustainable solutions.

# KNX General Principle

## Building Solution KNX – General View



# KNX General Principle



# Touch Panel

**Touch panel is one of the most important parts of smart building systems.**

There are many options to improve your quality of life within the panel. You can add a new feature and remove it when you want. Use on any area or surface can be provided. Produced to increase your quality of life, this panel makes home life more colorful with the features it provides.

You can control the lighting through the touch panel. You can set the desired lighting level of the room you want, turn the lighting on and off. You can also control your curtains through the panel, whether you call a taxi or make your life easier with a feature you define. With the cameras feature, you can view and track the areas you add. In addition, information sent to the apartment by the management of the information falling into the screen is provided.

## **Mobile Ease of Use**

The touch panel is a technological device and is made to be innovative. Therefore, the panel can also be used via smartphones. To do this, simply define the user. Once the connection is established, you can use the features you specify to be active.

## **Technological Control in Your Home**

You can easily see the status of the markets and traffic flow through the panel, which allows you to reach your desired point from your home. Your invoices can also be controlled through the panel. You can also add the features you want on the panel, which allows the active use of smart home systems.



# Imini

**The specially developed Imini helps to increase the comfort of living by providing effective use in smart building technologies.**

The products used in homes and hotels surprise their users with their superior features and effectively offer you the entire control area. It is easy to use thanks to its special software. With its elegant design, it adds elegance to your decoration and offers you the power to use every area in your home.

## **Your Living Areas More Colorful**

Imini is specially developed for living areas and provides a wide range of applications from lighting to air conditioning. Features within the device are designed to make your area comfortable.

You can activate your air conditioner with the new generation touch screen; you can accomplish your transactions quickly and reliably by providing access to residence services. In addition, with the reliability of building communication, Imini is at the forefront and offers unique comfort with the latest technology.







**ITR165-0000**

### Interra Imini

Imini brings a new understanding of home and hotel systems with its capabilities. This long-needed approach offers solutions that are sought but not found in residential and hotel projects.

- 6.5" touchscreen
- Multitouch capacitive
- Temperature sensor
- Ambient light sensor
- Microphone
- Speaker

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	105x180x8mm	ITR165-0000		1



**ITR110-0104**

### 10.1" Touch Panel

Interra 4 Touch Panel, which is preferred by those who are looking for a modern design, hardware, software and a product with an appropriate interface that can meet all project requirements, is designed to be used on any area or surface.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	345x232x7mm	ITR110-0104		1



**ITR107-0104**

### 7" Touch Panel

Interra 4 Touch Panel, which is preferred by those who are looking for a modern design, hardware, software and a product with an appropriate interface that can meet all project requirements, is designed to be used on any area or surface.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	260x167x7mm	ITR107-0104		1

## Other Parts/Accessories

Frame, Flushmount Case, Power Supplies

### Stainless steel frame

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Interra 10.1" stainless steel frame	ITR110-0206		1
Interra 7" stainless steel frame	ITR107-0203		1
Imini 6.5" stainless steel frame	ITR165-0206		1

### Black acrylic frame

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Interra 10.1" black acrylic frame	ITR110-0205		1
Interra 7" black acrylic frame	ITR107-0202		1
Imini acrylic black frame frame	ITR165-0204		1

### Black aluminium frame

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Interra 10.1" black aluminum frame	ITR110-0204		1
Interra 7" black aluminum frame	ITR107-0201		1

### Gold plated frame

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Interra 10.1" gold plated frame	ITR110-0208		1
Interra 7" gold plated frame	ITR107-0208		1

### Champagne plastic frame

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Interra 10.1" champagne plastic frame	ITR110-0207		1

### Touch panel flush mouting boxes

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Interra 10,1" Screen flush mouting box l4	ITR110-9004		1
Interra 7" flush mouting box	ITR107-9004		1
Imini 6.5" flush mounting box (Standard 2 hole electric box)	ITR165-9004		1

### Power supply for Touch panel and DND

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Meanwell 12V 1,67A Power Supply	MDR20-12		1
Meanwell 12V 4,5A Power Supply	HDR60-12		1



**ITR110-1001**

### 5 IO Multiplexer Module

Interra Multiplexer relay module for 5 touch 5 inputs connected to the input and output terminals for 4 touch panels.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
5 input 5 output	83X54X30,3mm	ITR110-0104		1

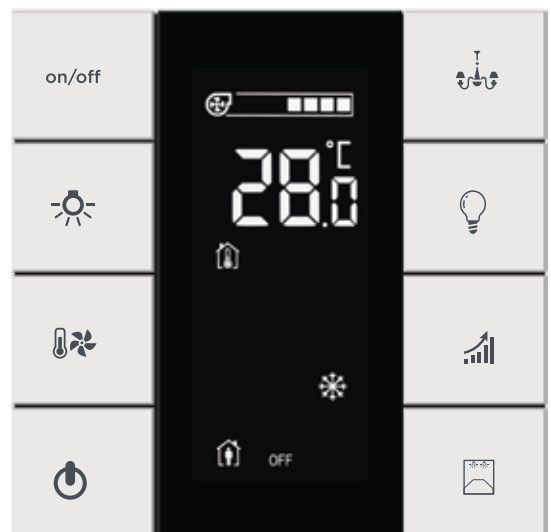


# Iswitch

Iswitch, which is at the forefront with its elegant and fashionable design, is presented as a product with the latest technological content which provides up to 12 buttons. 8 and 4 buttons without LCD, and 8 buttons with LCD are available. The number of buttons can be increased according to the desired feature. In addition to providing smart control, it also offers an advantage in terms of energy efficiency.

Iswitch, which is fed with KNX port, enables the living area to be used in a quality way.

With temperature, humidity sensor and mbad sensor you can create an automatic use. The temperature of the device can be brought to the desired level thanks to the feature that measures the ambient temperature on the device. It allows you to create a comfortable use with its special lighting system, which makes it easy to find in dark environments.



## Product Features

Iswitch with being smart system allows you to set the temperature of your home at any level you want. You can easily control your air conditioner, combi and similar products as well as create a desired ambient temperature. You can also change the colors on the model and make personalization. Long-term use is also suitable as it is made of high-quality materials.

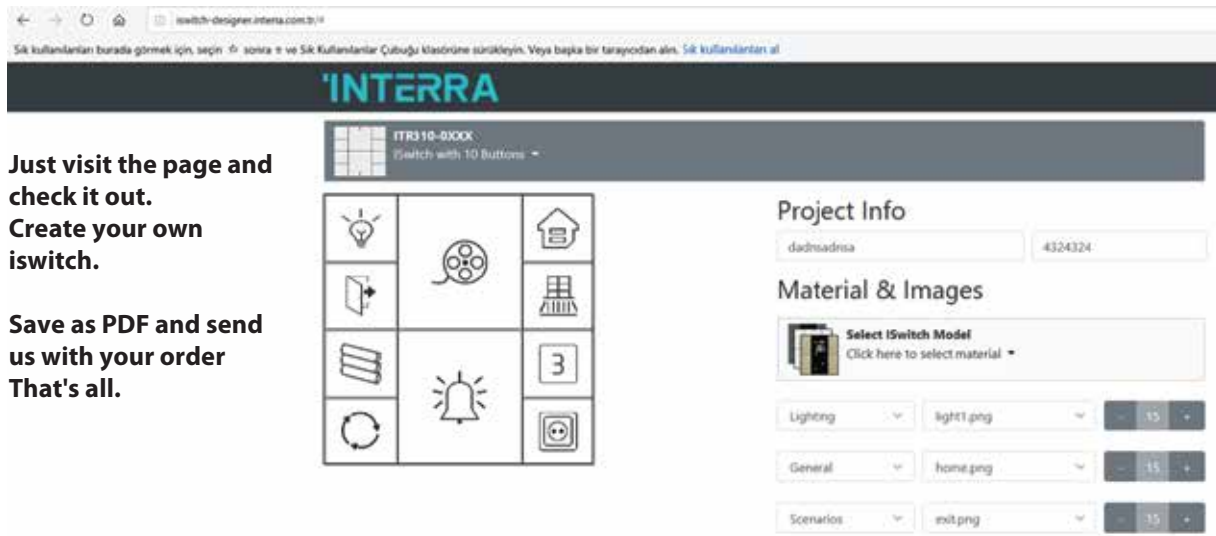


# Create your own Iswitch

## Iswitch design page

One of the most important problems is the identification of button functions, which are solved by the portal offered by Interra. <http://iswitch-designer.interra.com.tr/#>

You can select your device type of iswitch, material. You can create your own custom iswitch by adding individual symbols to each button. Symbols are grouped under certain categories (lighting, heating, general etc.).



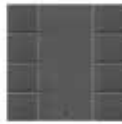
Just visit the page and check it out. Create your own iswitch.

Save as PDF and send us with your order That's all.

## Material and Color

Offering a choice of plastic, aluminium, stainless steel and magnificent glass effect options, Iswitch offers a unique range of custom colors for special taste as well standard colors. You do not need to allow mismatches in your living space and you do not have to. Iswitch has integrated RGBW status leds, you can freely choose the color and lighting level.

Plastic	Aluminium	Stainless steel	GlassEF
Jet Black RAL 9005 Matt	Natural Alu	Natural SS	Black
Pure White RAL 9010 Glossy	Jet Black RAL 9005	Champaign RAL 1015	Pure White
Pure White RAL 9010 Matt	Champaign RAL 1015		
Anthracite Matt RAL 7021			
Metalic Gray Plastic RAL 9006 Titane			



**Switches**  
ITR3XX-0 - 1button, 1gang,  
2gang, 3gang, 4gang, 5gang



**Switches**  
ITR3XX-1 - 1gang, 2gang, 4gang

### General

Device locking function	■	■
Navigation blue LED illumination	■	■
Temperature and Humidity sensor	■	■
Alarm flashing LED function	■	■
LCD backlight intensity change	—	■

### Pushbutton Functions

Switching	■	■
Dimming	■	■
Shutter/blind	■	■
Value	■	■
2-Channel Value	■	■
Step Switching Value	■	■
Scene	■	■
Thermostat functions	■	■
RGB LED function illumination + status illumination	■	■
RGB LEDs intensity change	■	■
Pushbutton behind LCD	—	■

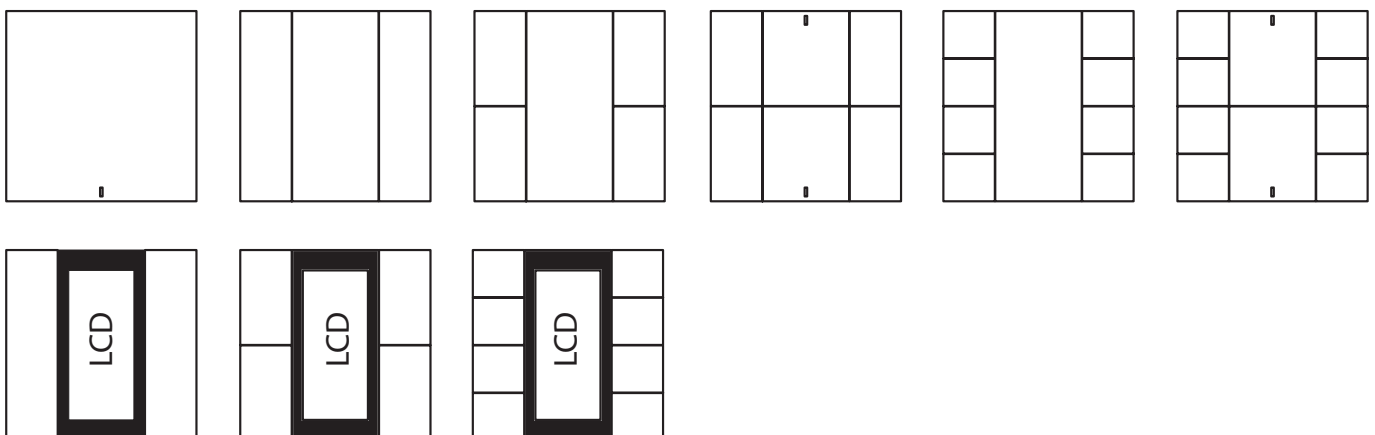
### Thermostat Functions

Thermostat functions	■	■
Thermostat functions illumination on LCD	—	■
Fan controller	■	■
Fan level illumination on LCD	—	■

### Mounting and Connections

KNX Bus	Bus Connection Terminal	Bus Connection Terminal
Dimensions (WxLxH)	90x90x11.80mm	90x90x11.80mm

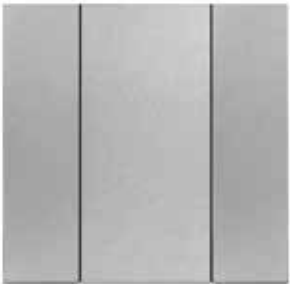
- = Function is supported
- = Function is not supported





### Iswitch 1 button

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Iswitch 1 button black plastic	ITR301-0001		1
Iswitch 1 button glossy white plastic	ITR301-0002		1
Iswitch 1 button matt white plastic	ITR301-0003		1
Iswitch 1 button Anthracite Matt plastic	ITR301-0004		1
Iswitch 1 button metallic gray plastic	ITR301-0005		1
Iswitch 1 button natural aluminium eloxal mat unbrashed	ITR301-0100		1
Iswitch 1 button black aluminium	ITR301-0101		1
Iswitch 1 button champagne aluminium	ITR301-0106		1
Iswitch 1 button natural stainless steel	ITR301-0200		1
Iswitch 1 button black GlassEF	ITR301-0301		1
Iswitch 1 button white GlassEF	ITR301-0302		1



### Iswitch 2 button

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Iswitch 2 button black plastic	ITR302-0001		1
Iswitch 2 button glossy white plastic	ITR302-0002		1
Iswitch 2 button matt white plastic	ITR302-0003		1
Iswitch 2 button Anthracite Matt plastic	ITR302-0004		1
Iswitch 2 button metallic gray plastic	ITR302-0005		1
Iswitch 2 button natural aluminium eloxal mat unbrashed	ITR302-0100		1
Iswitch 2 button black aluminium	ITR302-0101		1
Iswitch 2 button champagne aluminium	ITR302-0106		1
Iswitch 2 button natural stainless steel	ITR302-0200		1
Iswitch 2 button black GlassEF	ITR302-0301		1
Iswitch 2 button white GlassEF	ITR302-0302		1



### Iswitch 2 button with LCD

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Iswitch with LCD, 2 button black plastic	ITR302-1001		1
Iswitch with LCD, 2 button glossy white plastic	ITR302-1002		1
Iswitch with LCD, 2 button matt white plastic	ITR302-1003		1
Iswitch with LCD, 2 button Anthracite Matt plastic	ITR302-1004		1
Iswitch with LCD, 2 button metallic gray plastic	ITR302-1005		1
Iswitch with LCD, 2 button natural aluminium eloxal mat unbrashed	ITR302-1100		1
Iswitch with LCD, 2 button black aluminium	ITR302-1101		1
Iswitch with LCD, 2 button champagne aluminium	ITR302-1106		1
Iswitch with LCD, 2 button natural stainless steel	ITR302-1200		1
Iswitch with LCD, 2 button black GlassEF	ITR302-1301		1
Iswitch with LCD, 2 button white GlassEF	ITR302-1302		1



### Iswitch 4 button

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Iswitch 4 button black plastic	ITR304-0001		1
Iswitch 4 button glossy white plastic	ITR304-0002		1
Iswitch 4 button matt white plastic	ITR304-0003		1
Iswitch 4 button Anthracite Matt plastic	ITR304-0004		1
Iswitch 4 button metallic gray plastic	ITR304-0005		1
Iswitch 4 button natural aluminium eloxal mat unbrashed	ITR304-0100		1
Iswitch 4 button black aluminium	ITR304-0101		1
Iswitch 4 button champagne aluminium	ITR304-0106		1
Iswitch 4 button natural stainless steel	ITR304-0200		1
Iswitch 4 button black GlassEF	ITR304-0301		1
Iswitch 4 button white GlassEF	ITR304-0302		1



### Iswitch 4 button with LCD

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Iswitch with LCD, 4 button black plastic	ITR304-1001		1
Iswitch with LCD, 4 button glossy white plastic	ITR304-1002		1
Iswitch with LCD, 4 button matt white plastic	ITR304-1003		1
Iswitch with LCD, 4 button Anthracite Matt plastic	ITR304-1004		1
Iswitch with LCD, 4 button metalic gray plastic	ITR304-1005		1
Iswitch with LCD, 4 button natural aluminium eloxal mat unbrashed	ITR304-1100		1
Iswitch with LCD, 4 button black aluminium	ITR304-1101		1
Iswitch with LCD, 4 button champagne aluminium	ITR304-1106		1
Iswitch with LCD, 4 button natural stainless steel	ITR304-1200		1
Iswitch with LCD, 4 button black GlassEF	ITR304-1301		1
Iswitch with LCD, 4 button white GlassEF	ITR304-1302		1



### Iswitch 6 button

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Iswitch 6 button black plastic	ITR306-0001		1
Iswitch 6 button glossy white plastic	ITR306-0002		1
Iswitch 6 button matt white plastic	ITR306-0003		1
Iswitch 6 button Anthracite Matt plastic	ITR306-0004		1
Iswitch 6 button metalic gray plastic	ITR306-0005		1
Iswitch 6 button natural aluminium eloxal mat unbrashed	ITR306-0100		1
Iswitch 6 button black aluminium	ITR306-0101		1
Iswitch 6 button champagne aluminium	ITR306-0106		1
Iswitch 6 button natural stainless steel	ITR306-0200		1
Iswitch 6 button black GlassEF	ITR306-0301		1
Iswitch 6 button white GlassEF	ITR306-0302		1



### Iswitch 8 button

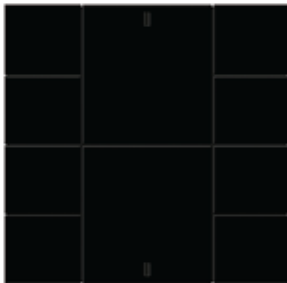
Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Iswitch 8 button black plastic	ITR308-0001		1
Iswitch 8 button glossy white plastic	ITR308-0002		1
Iswitch 8 button matt white plastic	ITR308-0003		1
Iswitch 8 button Anthracite Matt plastic	ITR308-0004		1
Iswitch 8 button metalic gray plastic	ITR308-0005		1
Iswitch 8 button natural aluminium eloxal mat unbrashed	ITR308-0100		1
Iswitch 8 button black aluminium	ITR308-0101		1
Iswitch 8 button champagne aluminium	ITR308-0106		1
Iswitch 8 button natural stainless steel	ITR308-0200		1
Iswitch 8 button black GlassEF	ITR308-0301		1
Iswitch 8 button white GlassEF	ITR308-0302		1





### Iswitch 8 button with LCD

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Iswitch with LCD, 8 button black plastic	ITR308-1001		1
Iswitch with LCD, 8 button glossy white plastic	ITR-308-1002		1
Iswitch with LCD, 8 button matt white plastic	ITR308-1003		1
Iswitch with LCD, 8 button Anthracite Matt plastic	ITR308-1004		1
Iswitch with LCD, 8 button metallic gray plastic	ITR308-1005		1
Iswitch with LCD, 8 button natural aluminium eloxal mat unbrushed	ITR308-1100		1
Iswitch with LCD, 8 button black aluminium	ITR308-1101		1
Iswitch with LCD, 8 button champagne aluminium	ITR308-1106		1
Iswitch with LCD, 8 button natural stainless steel	ITR308-1200		1
Iswitch with LCD, 8 button black GlassEF	ITR308-1301		1
Iswitch with LCD, 8 button white GlassEF	ITR308-1302		1



### Iswitch 10 button

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Iswitch 10 button black plastic	ITR310-0001		1
Iswitch 10 button glossy white plastic	ITR310-0002		1
Iswitch 10 button matt white plastic	ITR310-0003		1
Iswitch 10 button Anthracite Matt plastic	ITR310-0004		1
Iswitch 10 button metallic gray plastic	ITR310-0005		1
Iswitch 10 button natural aluminium eloxal mat unbrushed	ITR310-0100		1
Iswitch 10 button black aluminium	ITR310-0101		1
Iswitch 10 button champagne aluminium	ITR310-0106		1
Iswitch 10 button natural stainless steel	ITR310-0200		1
Iswitch 10 button black GlassEF	ITR310-0301		1
Iswitch 10 button white GlassEF	ITR310-0302		1



### Iswitch body gateway

Description	Order Code	Price 1 Pc. €	Price Unit Pc.
Main unit with BCU Main unit with knx gateway (interface and communication part, BCU. This part has mounting holes for fixing in standart electrical box- 1 gang-.This part is designed to be used in all models.)	ITR300-0000		1



# Interra KNX DALI Gateway



## KNX – Lighting Control – DALI

The Interra DALI Gateways are used to interface between DALI (Digital Addressable Lighting Interface) and KNX installations.

Device incorporate the DALI power supply. The Gateway is equipped with emergency lighting function, support the DALI standard EN 62386-202 that specifies DALI emergency lighting (self-contained).

The DALI Gateway also supports EN 62386-209 that specifies control of DALI operating devices of the device type "Colour Control" (DALI Device Type 8) in the specific version "Tunable White (TW)".

Maximum flexibility combined with highest amount of DALI participants and groups, to meet all customer needs.

DALI-Gateway (2 x DALI Line) can install up to 2 x 64 DALI devices both via 2 x 16 flexible DALI and KNX lighting groups each with one or more DALI participants.

Control and Monitoring via KNX. Control and status feedback can also be carried out via Broadcast. 2 x 16 independent Lighting scenes are available.

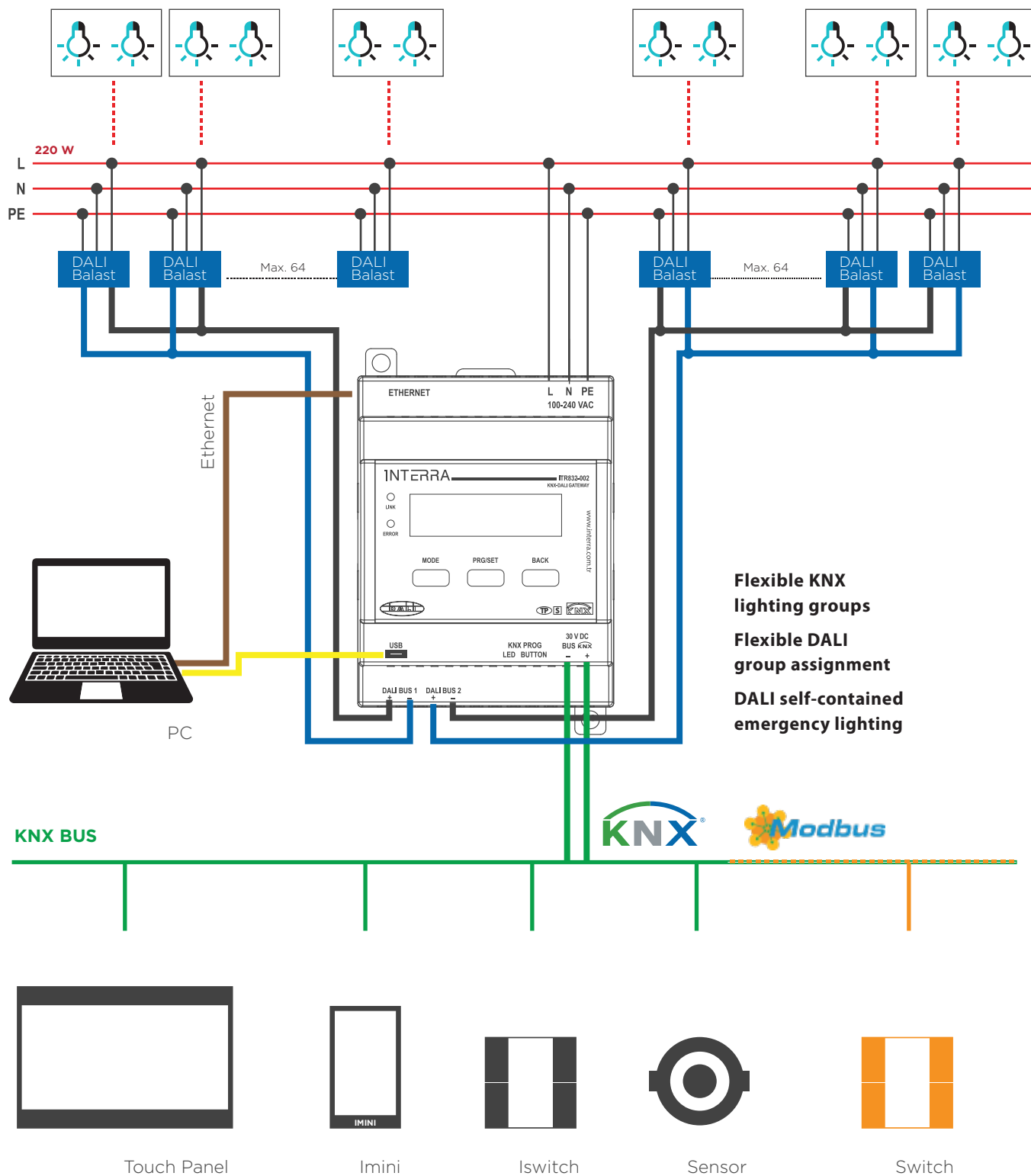
Integrated "visualisation" via web-browser for direct control and display the DALI line.

\* : Features will be added in second version of the device.



# Interfaces/Gateways

## DALI Connection diagram



# Interfaces/Gateways

## KNX DALI Gateway



**Gateways**  
ITR832-001 1x64xDALI Line



**Gateways**  
ITR832-002 2x64 DALI Line

### General

DALI Line Output	1x64, Single Channel	2x64, Dual Channel
Max. ECG Devices	Up to 64 devices (1x64)	Up to 128 devices (2x64)
Display	2x16 LCD Display	2x16 LCD Display
Short-Circuit & Overvoltage Proof	Available	Available
Power Supply	100-240 VAC	100-240 VAC
Power Consumption	6 W	13 W
DALI Line Current Con.	1x250 mA	2x250 mA
DALI Voltage	Typical 19V DC(12...20.5)	Typical 19V DC(12 20.5)
Network	1xEthernet, 1xKNX and 1xUSB Port	1xEthernet, 1xKNX and 1xUSB Port
Type of Protection	IP 20	IP 20
Temperature Range	Operation (-5°C...45°C) / Storage (-25°C...55°C)	Operation (-5°C...45°C) Storage (-25°C...55°C)
Max. Air Humidity	< 90 RH	< 90 RH
Flammability	Non-flammable Product	Non-flammable Product
Color	Light Grey and White	Light Grey and White
Dimensions	90x70x64.5 (HxWxD)	90x70x64.5 (HxWxD)
Certification	KNX Certified	KNX Certified
Configuration	Configuration with ETS	Configuration with ETS

### Function

KNX Bus Voltage Failure Status.	■	■
KNX Voltage Recovery Status.	■	■
DALI Bus Voltage Failure Status.	■	■
DALI Voltage Recovery Status.	■	■
Ballast and / or Lighting Error.	■	■
Working log analysis with UDP.	■	■
Broadcast control can be made with manually and software.	■	■
Presence Sensor can be connected on DALI line (*).	■	■
Pushbutton switch can be connected on DALI line (*).	■	■
Daylight Sensor can be connected on DALI line (*).	■	■

### Commissioning and diagnostic functions

Addressing operations can be done via ETS or manual buttons as short address assignment.	■	■
Assigning group addresses to ballasts via ETS without need additional software.	■	■
Faulty ballast detection.	■	■
Faulty lighting detection.	■	■
Commissioning and control via embedded web server (*).	■	■
DALI line device selection with manual button.	■	■
Remote software update via Ethernet connection.	■	■
Emergency lighting test (according to EN 62386-202 standard) (*).	■	■

- = Function is supported
- = Function is not supported

\*: Features will be added in second version of the device.





ITR832-001

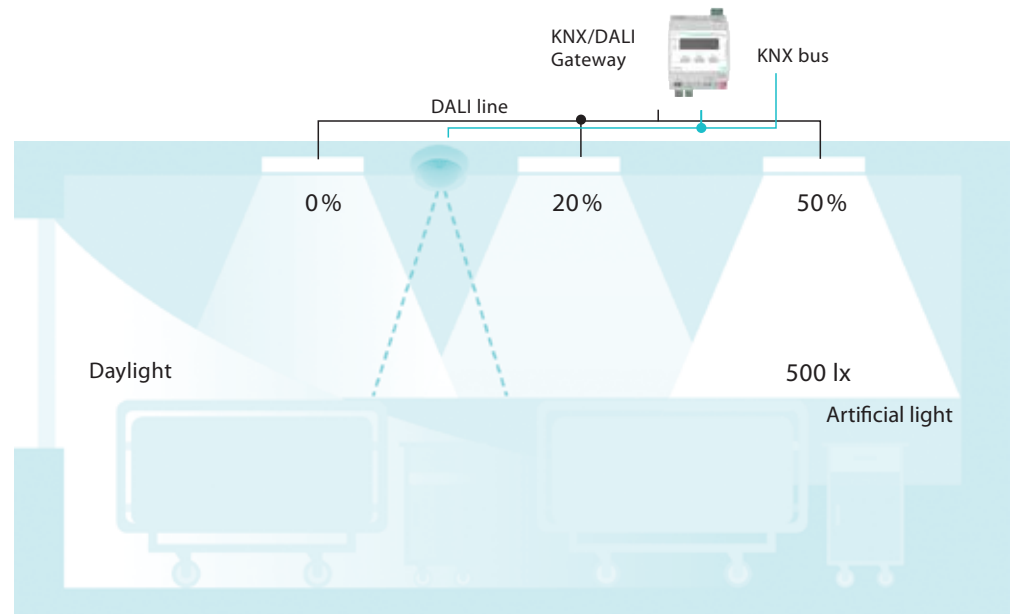


ITR832-002

### KNX DALI-Gateway 1x64 - 2x64

The device is used to interface between DALI and KNX installations and incorporates the DALI power supply. Two DALI output for up to 2 x 64 DALI Slaves. Control and status feedback is carried out via KNX per DALI slave (2 x 64), with lighting groups (2 x 16), together in two broadcasts or per scenes (2 x 16). Extensive fault and error messages are available. Self-contained emergency converter (2 x 64) acc. EN 62386-202 will be supported. By means of KNX and emergency converter, different emergency tests (e.g. function and duration test) can be triggered. Feedback is sent. Slave-, staircase-, force-, block- and scene- function are integrated. DALI telegram rate can change. For diagnostic use and individual change of the DALI address or group assignment a separate is available.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	4	ITR832-001		1
	4	ITR832-002		1



### Hospital Application Example:

- **Central monitoring** of several hospitals or buildings reduces staff overheads. To reduce energy costs, energy consumption data can be gathered for analysis, peak loads capped and currently **unnneeded consumers switched off**. For example, in peak periods, the output from the air conditioning system can be reduced temporarily, in some areas.
- **Operating costs can be reduced prioritizing maintenance and repair according to need**. This is made possible by counting operating hours and switching cycles, as well as failure reports, e.g. from DALI-ECGs.

Economy	Specifically
<ul style="list-style-type: none"> <li>• Using daylight without glare</li> <li>• Constant light regulation</li> <li>• Lighting according to presence</li> <li>• Heating, cooling, ventilation according to need</li> <li>• Reduction of heating in case of open windows</li> <li>• "Central off" for heating at night</li> <li>• Efficient building management with visualization</li> <li>• Building management of distributed real estate properties</li> <li>• Central monitoring of more than one building</li> <li>• Monitoring without special monitoring systems</li> <li>• Maintenance according to need</li> <li>• Switching off unneeded energy consumers/devices</li> </ul>	<p><b>Patient rooms</b></p> <ul style="list-style-type: none"> <li>• Manually controlled room functions</li> <li>• Illuminated, clearly labelled pushbuttons</li> <li>• Timed air delivery and extraction control</li> </ul> <p><b>... in restrooms</b></p> <ul style="list-style-type: none"> <li>• Presence-dependent lighting and extraction system</li> <li>• Water sensors give early warning</li> </ul> <p><b>... in the ward center</b></p> <ul style="list-style-type: none"> <li>• Ward center with control panel as distribution center</li> </ul> <p><b>... in the conference room</b></p> <ul style="list-style-type: none"> <li>• Scenario control at the touch of a button</li> <li>• Remote control in the conference room</li> </ul> <p><b>... in consulting rooms</b></p> <ul style="list-style-type: none"> <li>• Lighting matched to requirements</li> </ul> <p><b>... in operating rooms/intensive care ward</b></p> <ul style="list-style-type: none"> <li>• Coloured socket outlets offer secure distinction</li> <li>• Switches and socket outlets clearly labelled</li> <li>• Guaranteed power supply</li> <li>• Any fault reports guarantee power supply</li> </ul> <p><b>... and the right control for every task</b></p> <ul style="list-style-type: none"> <li>• Appropriate user interfaces for every requirement</li> <li>• Pushbuttons extraordinarily hygienic</li> </ul>
<p><b>Safety</b></p> <ul style="list-style-type: none"> <li>• Presence-dependent corridor lighting</li> <li>• Exterior and walkway lighting</li> <li>• Indication of windows, roof hatches or doors left open</li> <li>• "Central off" when room unoccupied</li> <li>• Emergency and escape route lighting</li> <li>• Visualization shows location of danger</li> <li>• External building monitoring</li> <li>• Automatic reaction in case of fire alarm</li> </ul>	



# Interra IP Control

Connects KNX® TP, KNXnet/IP

It enables you to monitor and manage all devices connected to KNX network centrally with Interra IP Control in indoor and industrial automation systems.

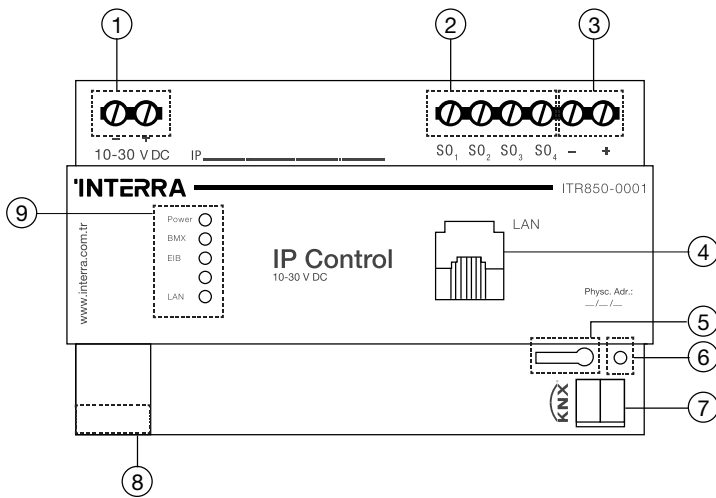
You can intervene in the automation system and diagnose the system with warnings falling.

Thanks to the 12-30 V wide-range voltage supply, Interra IP Control can be supplied with a variety of compatible power supplies.



# Interfaces/Gateways

## IP Control



1. Power supply (10 – 30V DC)
2. S0 pulse input terminal
3. Terminal for S0 pulse input power supply 24 V DC
4. RJ45 socket for Ethernet LAN
5. KNX programming button
6. KNX programming LED
7. KNX bus terminal
8. USB 2.0 terminal for 1-Wire
9. Signal LEDs

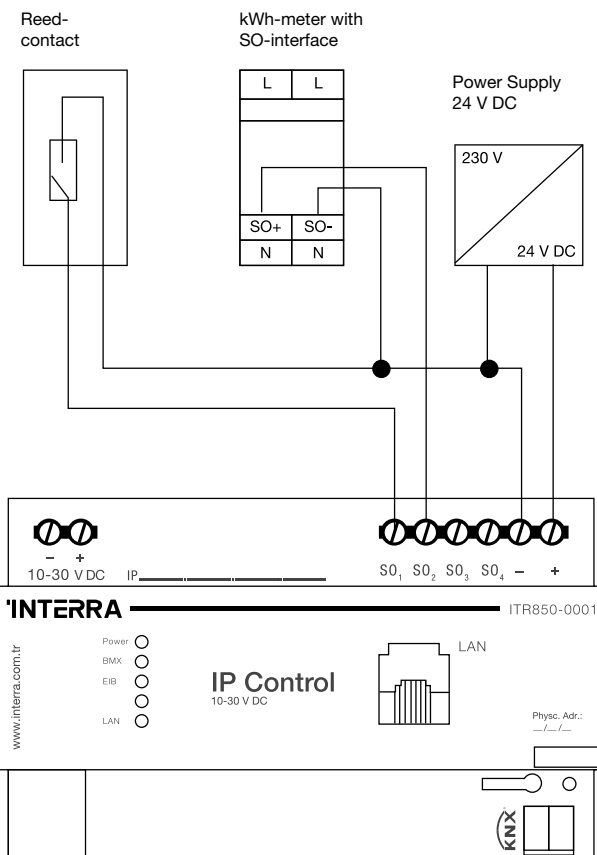
### General features

- Interra IP Control forms the interface between an Ethernet IP LAN and the KNX system.
- A local PC in a LAN gives users access to their KNX system by the Interra IP Control via the Ethernet connection.
- Interra IP Control functions are used as a central control, signal and command unit. Configuration and operation is carried out via a JAVA enabled web browser.
- The visualization interface can actually be used without JAVA, only with a browser.
- Access is also possible via the Internet, Internet connection can be established via DSL, LAN with a router and a directory server.

### Marks

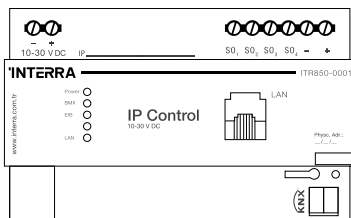
CE: The device complies with Electromagnetic Compatibility Directive (2014/30/EU) and Low Voltage Directive (2014/35/EU).

Tests are carried out according to EN 50428, EN 50090-2-2, EN 55014-1, EN 60669-1, EN 60669-2, EN 61000-6-3, EN 61000-6-1.



# Interfaces/Gateways

## IP Control



### Gateways

#### ITR850-001 IPC Control

#### General

Power Supply	10-30 V DC, KNX/EIB
Power Consumption	<= 5 VA
Buttons	1 x KNX Programming button, only for reviewing the bus voltage
LED Indicators	1 x BMX LED, 1 x POWER LED, 1 x EIB LED, 1 x LAN LED
Ethernet	1 x RJ-45 connector for Ethernet LAN
Processor	Vortex 86DX@600 Mhz
Memory	256 MB SD-Ram, / 4 GB Flash(Micro SD-Card)
Operating System	Embedded Linux, Java Runtime Engine Version 7 Update 51
Type of Protection	IP 20
Temperature Range	Operation (0°C...35°C)
Maximum Air Humidity	< 90 RH
Colour	Light Grey
Flammability	Non-flammable product
Dimensions	144x90x64.5 mm (WxHxD)
Configuration	Interra Starter Software

#### Function

• Amazon® Alexa Integration	■
• Long-term data recording	■
• camera archive	■
• INTERRA Remote Support	■
• KNXnet/IP Routing	■
• Web visualisation for all devices	■
• Free visualisation CONTROL	■
• Innovative visualisation «CUBEVISION»	■
• Visualisation app for iOS® & Android	■
• License free & platform independent	■
• Simple visualisation editor (based on image processing programs)	■
• Web-based, graphical job editor	■
• form-based Job Editor Classic	■
• HTTPS access possible	■
• Encrypted user authentication	■
• Integration of IP network cameras	■
• Time synchronisation with NTP server	■
• RSS feed display element	■
• Integrated VPN server	■
• INTERRA SECURELINK integrated	■
• Address transfer from ETS	■
• Bus monitor and data recording (500,000 telegrams)	■
• Address status table for initialization	■
• No data point limitation	■

■ = Function is supported

— = Function is not supported



# Interfaces/Gateways

## IP Control



**ITR850-0001**

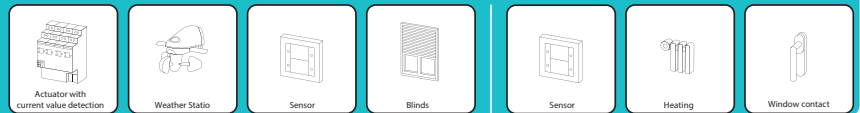
### IP Control / Connects KNX® TP, KNXnet/IP

It enables you to monitor and manage all devices connected to KNX network centrally with Interra IP Control in indoor and industrial automation systems. You can intervene in the automation system and diagnose the system with warnings falling. Thanks to the 12-30 V wide-range voltage supply, Interra IP Control can be supplied with a variety of compatible power supplies. Thanks to the 12-30 V wide-range voltage supply, Interra IP Control can be supplied with a variety of compatible power supplies.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	10	ITR850-0001		1

## Functional Overview / KNX Building Automation

Building automation



- By using the EIBPORT, KNX automation is extended many times over. The connection to the Ethernet network enables numerous other applications.

- Using IR Trans gateways, any consumer electronics devices can be incorporated into the building control system.

- For even more comfortable multiroom audio, our AUDIOMODULE can be operated via KNX buttons.

- Together with APPMODULE, you benefit from a growing portfolio of smart home apps for the integration of IoT devices and services such as Philips® hue, Sonos®, Denon® HEOS, DoorBird and many more.

- Any operating units, such as smartphones, tablet PCs and also Amazon® Alexa, can access and control KNX devices.

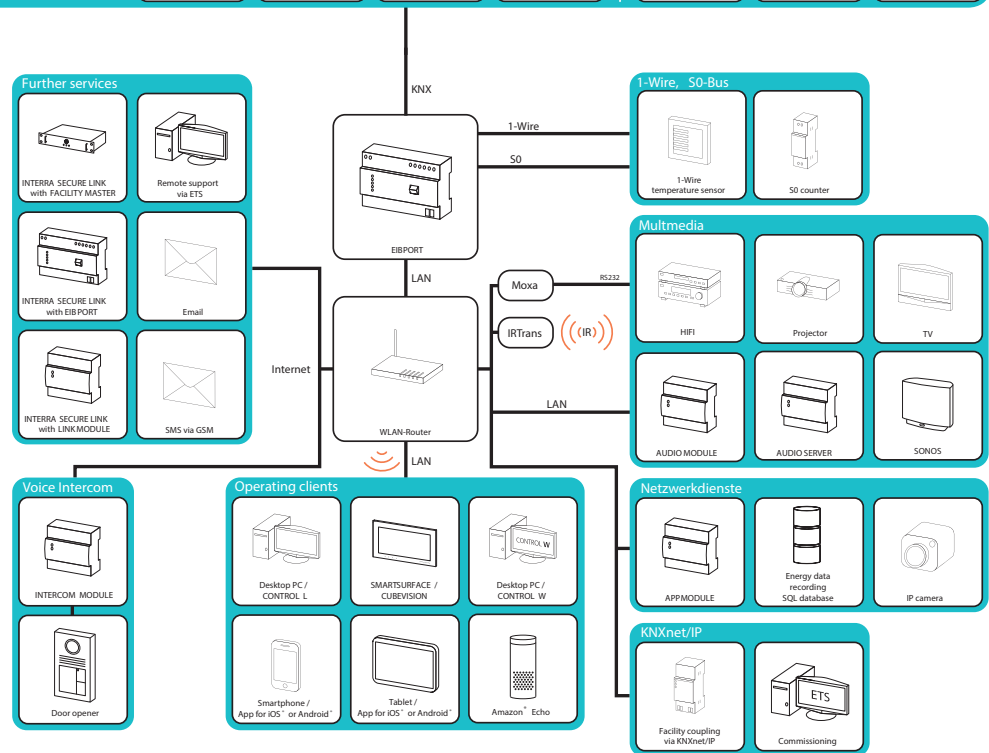
- CUBEVISION allows consistent operation on the individual user interface and is also available as a free app for iOS® & Android®.

- Upon request, an e-mail or SMS is sent in the event of a fault.

- The network camera provides an insight into what is happening on site.

- Cost-effective commissioning and fast support are possible via remote maintenance via the Internet.

- With the help of INTERRA SECURE LINK, buildings can be safely linked via the intranet or Internet and integrated into a central property management system.



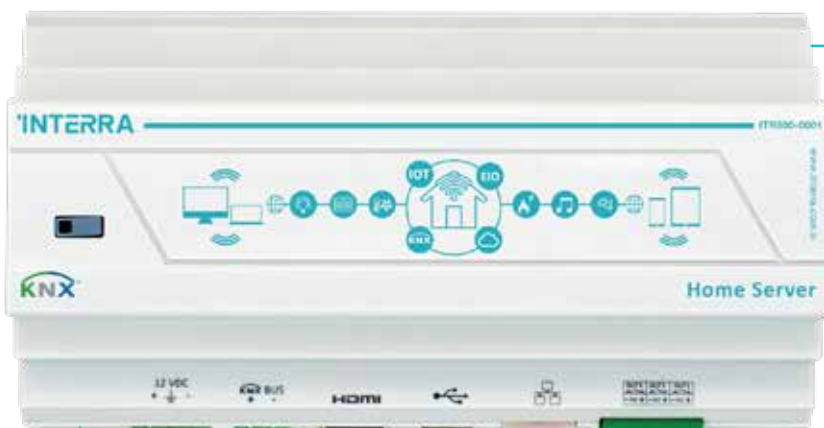
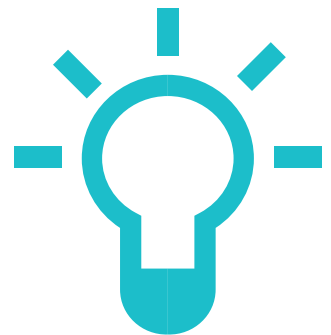


# Home Server

Manages all automation system of your home from one center...

# Home Server

With Interra Home Server all automation system is managed from one center. Ranging from keys and simple sensors, lightening and heating to complex systems such as alarm systems compiles everything in one central point and may ensure the control of all automation over android or IOS.



Through home server applications (Android,IOS,IPAD and IWatch), you can control all KNX or Interra EIO automation with one device.



Via Home server mobile application you can control lightening, curtains, blinds,security and camera systems from all over the world.



# Interfaces/Gateways

## Home Server



**ITR800-0001**

### Home Server

Interra HomeServer is designed to control the entire automation system from a single smart point. HomeServer can control complex systems such as switches, simple sensors, lighting, heating systems, camera and alarm systems from a central point. Mobile control can be done by downloading Interra Pro software from online software markets related to IOS or Android based devices. Also, The configuration software (Interra Configurator) can be downloaded from our website ([www.interra.com.tr](http://www.interra.com.tr)) for the HomeServer configuration.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	10	ITR800-0001		1

### General

Power Supply	12V-2A DC Power Supply
CPU	ARM Cortex A7 Dual-Core 2x1.2 GHz
Memory	1 GB DDR3
Storage	8 GB EMMC
OS	Android 4.2.2
Temperature Range	Operation (-20°C...70°C) Storage (-35°C...100°C)
USB	1x USB2.0
KNX	1x KNX Connector
Display	HDMI 1.3 up to 1920x1080p@60Hz
Button	Reset button
Network	100Mbps Ethernet and USB WIFI
RTC	System includes RTC with CR1220 battery
GPIO	3pcs relayed Output (5A), 3pcs input connectors.
Dimensions	170x65x90 mm (WxHxD)
Certification	KNX Certified
Configuration	With Interra Configurator Software





# Ismart

scenarios that can be realized with limited flexibility with KNX devices in the building automation sector will have high flexibility thanks to Ismart.

Ismart device can be programmed without the need for extra software on computers, mobile phones or devices that can access any internet browser.

Ismart is able to automate and manage the related place without the need for an external feed or communication (the term smart already comes from here).



**As scenario:** when a customer checks-in at a hotel, he / she can switch to the corresponding room preparation mode, for example, to warm the room up to 23 degrees, the corridor lights can be turned on after the customer enters the door, the temperature can be reduced to the desired level and the lights can be turned off each time when he / she leaves from the room.



# Interfaces/Gateways

## Ismart



ITR230-0001

### Ismart

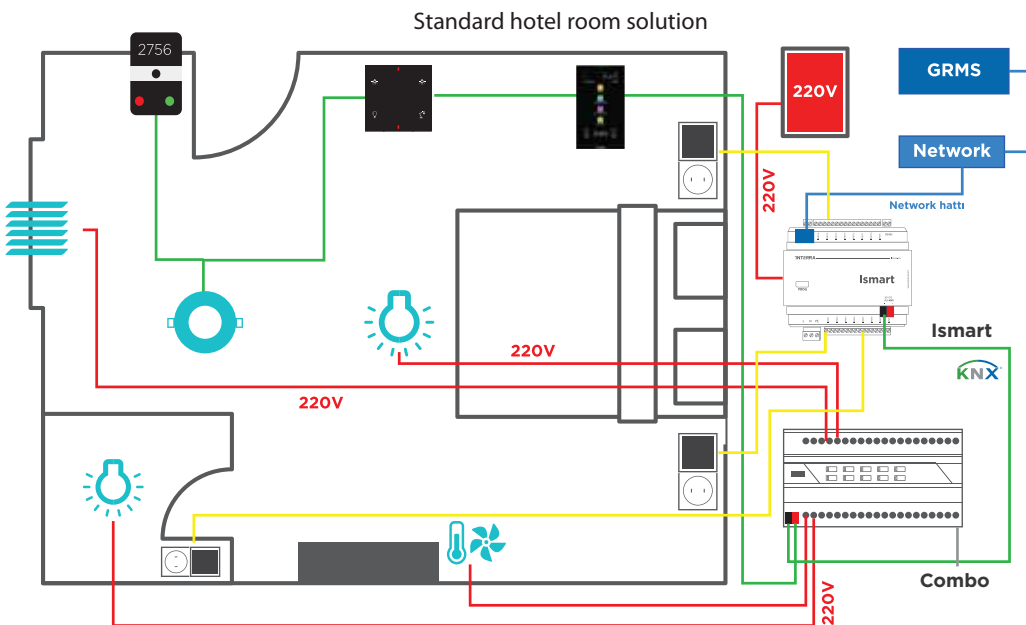
Scenarios that can be realized with limited flexibility with KNX devices in the building automation sector will have high flexibility thanks to Ismart. Ismart device can be programmed without the need for extra software on computers, mobile phones or devices that can access any internet browser.

Ismart is able to automate and manage the related place without the need for an external feed or communication (the term smart already comes from here).

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	6	ITR230-0001		1

### General

Power Supply	230 V AC 50Hz ±%5
CPU	ARM Cortex A7 Dual-Core 4x1.2 GHz
Memory	512 MB DDR3
Storage	8 GB EMMC SD Card up to 16gb
OS	Ubuntu (16.04)
USB	1x USB2.0
KNX	1x KNX Connector
Button	1 x Programming Button
Network	100Mbps Ethernet
RTC	System includes RTC with battery backup
Input	16 Digital Input
Temperature Range	Operation (0°C...40°C) / Storage (0°C...50°C)
Maximum Air Humidity	< 90 RH
Colour	Light Grey
Dimensions	105x90x64mm(WxHxD)
Type of Protection	IP 20
Flammability	Non-flammable product
Mounting	DIN Rail
Configuration	Via Internet Browser



### Ismart

- Built-in KNX power supply
- Max. Three connected KNX devices
- Unlimited logic combinations
- 16 digital inputs
- Ethernet RS485 and KNX port

### Functions

- Lighting control
- Curtain / roller shutter control
- Air conditioning
- Scenarios





# EIO Comfort Box Web

While the control of living spaces is carried out perfectly with Interra technologies, Interra also offers cost-effective solutions.

**Interra EIO Comfort Box**  
**ITR-208-0005 8 input / 8 output**  
**ITR-212-0005 12 input / 12 output**  
**ITR-212-0003 12 input / 12 output, integrated 300W universal dimmer**

The hotel GRMS solution, which has been designed with special and unique options, can be controlled inside the entire building or from anywhere you wish.

Inputs/outputs are freely configurable depending on the project needs and support saving 10 different scenarios, and the virtual inputs on the IP network send the room status to the Interra Hotel server with a securely designed protocol.



# Ethernet I/O Module

## EIO Confort Box Web



**ITR208-0005**



**ITR212-0005**

### EIO Confort Box Web

The ethernet I/O module is a versatile device which allows a variety of configurations. The ethernet module is intended to cover several automation requirement in a smart building for safe and efficient operations. The ethernet I/O module has been developed for providing the desired controls in the residence and hotel sectors. The usage of this devices guarantees the efficient management and provision of rooms. The device takes its energy from the 100-250 VAC mains line and does not need an external power supply. The device can communicate with the Interra touch panels and the Interra HomeServer via ethernet connection. In addition, the desired configurations for the inputs and outputs of the device can be made from the corresponding menus via the EIO Configuration software.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	12	ITR230-0001		1



**Ethernet I/O Module ITR208-0005**



**Ethernet I/O Module ITR212-0005**

### General

	ITR208-0005	ITR212-0005
Device	ITR208-0005	ITR212-0005
Power Supply	100-250 VAC @50Hz	100-250 VAC @50Hz
Power Consumption	0.9 W	0.9 W
Number of Binary Inputs	8 channels	12 channels
Virtual Inputs	8 channels	12 channels
Number of Binary Outputs	8 channels	12 channels
Contact Capacity	16 A (Inrush current 100A)	16 A (Inrush current 100A)
Type of Protection	IP 20	IP 20
Temperature Range	Operation (-5°C...45°C) Storage (-20°C...70°C)	Operation (-5°C...45°C) Storage (-20°C...70°C)
Maximum Air Humidity	< 90 RH	< 90 RH
Flammability	Non-flammable product	Non-flammable product
Mounting	DIN Rail	DIN Rail
Colour	Light Grey (RAL 7035)	Light Grey (RAL 7035)
Dimensions	59.3x86x157.8mm (HxWxD)-> 9 DIN units	59.3x86x157.8mm (HxWxD)-> 9 DIN units
Weight	390 gr	390 gr
Configuration	EIO Configuration Software	EIO Configuration Software

# Interfaces/Gateways

## KNX-DMX Gateway, Ir Emitter, DND/MUR, KNX-USB Interface



**ITR831-001**

### KNX-DMX Gateway

KNX-DMX Gateway module supports two-way control, and can record, play and delete DMX programs. With recording time up to 4 hours, KNX-DMX Gateway can be widely used to control devices with built-in DMX protocol port for LED color control, such as computer light, moving head light, laser light, etc.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	4	ITR831-001		1



**ITR420-001**

### IR Emitter

ITR420-001 The Interra IR Emitter is a multifunctional IR transmitter and it has five functions : Single mode, repeat mode, sequence mode, air-condition control and current detection. The device has 150 universal IR codes at most and 810 AC IR codes at most. Also, it has 4 emitting interfaces A, B, C and D. The Interra IR Emitter is used to control electronic devices such as TV, DVD, Air-Conditioner and other devices can be controlled by IR. Interra products are manufactured in accordance with EU standard for EMC, electrical safety compatibility.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	40x10x40mm	ITR420-001		1



**ITR630-001**

### DND/MUR

The DND/MUR (Do Not Disturb / Make Up Room) module is a simple way for guests to communicate with staff from their room. Either don't want to be disturbed or need your room to be cleaned, it is as simple as touching a button. The product includes a doorbell button to announce visitors in a kindly way. Besides, optionally the doorbell can be disabled whether the "Do Not Disturb" is active.

Module needs an extra 12-24V VDC power supply for LEDs.

KNX bus enables information exchanges with sensors and the integration with a building management system.

The outdoor module can be customized with the room number, icons (Do Not Disturb / Make Up Room), logo and name of the hotel. Hotels can simply integrate our technology into their own design.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	130x230x36mm	ITR630-001		1



**ITR901-003**

### KNX-USB Interface

ITR901-003 USB interface connects a PC to KNX TP via USB and provides a galvanic isolated bi-directional data connection to the KNX bus. With the ETS or another KNX compatible commissioning tool the UIMtp works as programming interface. Due to HID profile support no specific USB driver is required. ITR901-003 also supports the USB suspend mode.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	2	ITR901-003		1

# Interfaces/Gateways

## Mitsubishi Electric-KNX Gateway, Daikin Sky & VRV AC - KNX Gateway



**ITR830-001**

### Mitsubishi Electric AC - KNX Gateway

ITR830-001 is used for monitoring and control all the functioning parameters of Mitsubishi Electric air conditioners with KNX and ITR830-001 is compatible with models in PAC, RAC and City Multi VRF and Industrial types categorized in compatibility list (AP.1) sold by Mitsubishi Electric. ITR830-001 has easy installation feature. It can be installed inside the own AC indoor unit, it connects one side directly to the electronic circuit of the AC indoor unit (cable supplied) and in the other side directly to the KNX bus.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	40x10x40mm	ITR830-001		1



**ITR830-003**

### Daikin Sky & VRV AC - KNX Gateway

ITR830-003 is a air conditioner gateway that used for monitoring and control all the functioning parameters of Daikin Industries air conditioners via KNX bus line. Daikin Sky & VRV AC - KNX Gateway is compatible with models in Sky & VRV types categorized in compatibility list sold by Daikin Industries. Daikin Sky & VRV AC - KNX Gateway has easy installation feature and can be installed inside the own AC indoor unit or a proper location away from the air conditioner, it connects one side directly to the electronic circuit of the AC indoor unit and in the other side directly to the KNX bus.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	88,5x63x27,5mm	ITR830-003		1



## Combo (Actuator)

Combo is a multi-function KNX relay module which has a high processing capacity and which can respond to all automation controls.

With its specially designed parameters, the product - which is the result of advanced Turkish engineering - makes users happy in prestigious projects with its top-quality components.

We have developed it with top-quality standards and we sell it to the world...



# Actuators

Lighting, Shutter/Blind, Heating, Fancoil, Dimmer and 0-10v Actuators

	Combo ITR504	Combo ITR508	Combo ITR512	Combo ITR516	Combo ITR520	Combo ITR524
<b>General</b>						
Channel Count	4CH	8CH	12CH	16CH	20CH	24CH
Lighting Control	■	■	■	■	■	■
Heating Control	■	■	■	■	■	■
Shutter and Blind Control / 24V	■	■	■	■	■	■
Fan Coil 2-Pipes and 4-Pipes	■	■	■	■	■	■
Output Current	16A@250VAC, 165A inrush	16A@250VAC, 165A inrush	16A@250VAC, 165A inrush	16A@250VAC, 165A inrush	16A@250VAC, 165A inrush	16A@250VAC, 165A inrush
Converter Functions	4	4	4	8	8	8
Logic Functions	4	4	4	4	4	4
<b>Mounting and Connections</b>						
KNX Bus	Bus Connection Terminal	Bus Connection Terminal	Bus Connection Terminal	Bus Connection Terminal	Bus Connection Terminal	Bus Connection Terminal
Dimension (WxHxD)	105x90x64mm	105x90x64mm	171x90x64mm	171x90x64mm	274x90x64mm	274x90x64mm

## ITR500-001

<b>General</b>	
Number of channel	6
Channel current	10A@220-250V AC
Dimming output	24mA@0-10V DC per channel
<b>Functions</b>	
Switching	■
Staircase	■
Scene control	■
Sequence	■
Heating (PWM)	■
<b>Mounting and Connections</b>	
KNX Bus	Bus Connection terminal
Consumption	10mA
Dimension (WxHxD)	90x144x66mm

## ITR500-002

<b>General</b>	
Number of channel	4
Dimming output	1.5A@120-240V AC
<b>Functions</b>	
Switching	■
Temperature read	■
Staircase	■
Scene control	■
Scene dimming	■
Sequence	■
Heating (PWM)	■
Threshold control	■
<b>Protection</b>	
Short circuit protection	■
Overload protection	■
Heat protection	■
Over temperature protection	■
<b>Mounting and Connections</b>	
KNX Bus	Bus Connection terminal
Consumption	10mA
Dimension (WxHxD)	90x216x66mm

■ = Function is supported

# Actuators

Lighting, Shutter/Blind, Heating, Fancoil, Dimmer and 0-10v Actuators



**ITR504-16A**

### Combo module 4CH

The combo actuator is a KNX certified device available with 4 channels. Modules are supplied over KNX bus and do not need any other external power supply. The communication of the devices via the KNX bus enables information exchanges with KNX sensors and the integration with a building management system. Outputs of combo module can be configured to different functionalities depending on the project needs

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	6	ITR504-16A		1



**ITR508-16A**

### Combo module 8CH

The combo actuator is a KNX certified device available with 8 channels. Modules are supplied over KNX bus and do not need any other external power supply. The communication of the devices via the KNX bus enables information exchanges with KNX sensors and the integration with a building management system. Outputs of combo module can be configured to different functionalities depending on the project needs

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	6	ITR508-16A		1



**ITR512-16A**

### Combo module 12CH

The combo actuator is a KNX certified device available with 12 channels. Modules are supplied over KNX bus and do not need any other external power supply. The communication of the devices via the KNX bus enables information exchanges with KNX sensors and the integration with a building management system. Outputs of combo module can be configured to different functionalities depending on the project needs

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	10	ITR512-16A		1



**ITR516-16A**

### Combo module 16CH

The combo actuator is a KNX certified device available with 16 channels. Modules are supplied over KNX bus and do not need any other external power supply. The communication of the devices via the KNX bus enables information exchanges with KNX sensors and the integration with a building management system. Outputs of combo module can be configured to different functionalities depending on the project needs

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	10	ITR516-16A		1

# Actuators

Lighting, Shutter/Blind, Heating, Fancoil, Dimmer and 0-10v Actuators



**ITR520-16A**

### Combo module 20CH

The combo actuator is a KNX certified device available with 20 channels. Modules are supplied over KNX bus and do not need any other external power supply. The communication of the devices via the KNX bus enables information exchanges with KNX sensors and the integration with a building management system. Outputs of combo module can be configured to different functionalities depending on the project needs

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	15	ITR520-16A		1



**ITR524-16A**

### Combo module 24CH

The combo actuator is a KNX certified device available with 24 channels. Modules are supplied over KNX bus and do not need any other external power supply. The communication of the devices via the KNX bus enables information exchanges with KNX sensors and the integration with a building management system. Outputs of combo module can be configured to different functionalities depending on the project needs

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	15	ITR524-16A		1



**ITR500-001**

### 6CH 10A Ballast Dimming Module 0-10V

ITR500-001 can dimming from 0V to 10V for per channel. The outputs for MAX 10A be switched ON or OFF on every output channel, also can manually switch. Control types include both input and output, so, Absorption and output type ballast can be connected to this module.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	8	ITR500-001		1



**ITR500-002**

### 4CH 1.5A Universal Dimming Module

ITR500-002 has 4 channel 1.5A dimming capability. It has short circuit, over load and heat protection.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	12	ITR500-002		1

# System Components

## Power Supplies



ITR900-164

ITR900-132

ITR900-116

### General

Supply Voltage	85-240VAC	85-240VAC	85-240VAC
Type of installation	MDRC	MDRC	MDRC
Module width (18 mm)	4	4	4
Power Consumption(Max)	55W	30W	21W
Power Consumption(Typical)	24W	12.5W	6.6W
Rated current (Total)	640mA	320mA	160mA
Rated voltage	30VDC	30VDC	30VDC

### Outputs

Output with Choke (KNX Bus)	■	■	■
Output without Choke	■	■	■

### LED Indication (Two colored single LED)

Short-circuit	RED (Flashing)	RED (Flashing)	RED (Flashing)
Overload indication	RED (Continuous)	RED (Continuous)	RED (Continuous)
Operating Status (trouble-free)	Green	Green	Green

### Protection

Short Circuit	■	■	■
Over Temperature	■	■	■

### Connections

KNX Bus	Bus Connection Terminal	Bus Connection Terminal	Bus Connection Terminal
External Supply	Screw Terminal	Screw Terminal	Screw Terminal
Mains Voltage Input	Screw Terminal	Screw Terminal	Screw Terminal

### Dimensions (WxLxH)

	70x90x66	70x90x66	70x90x66
--	----------	----------	----------

### Housing

	Plastic Housing(White Color)	Plastic Housing(White Color)	Plastic Housing(White Color)
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■ = Function is supported

# System Components

## Power Supplies



**ITR900-116**

### Power Supply Standard, 160 mA, MDRC

KNX power supplies generate the KNX system voltage (SELV).

The bus line is decoupled from the power supply by an integrated choke.

The voltage output is short-circuit and overload protected.

The two-color LED indicates device output status.

Power supply has an additional 30 V DC short-circuit and overload protected voltage output that can be used to power an additional bus line (in combination with a separate choke).

With two-coloured status indicator and wide range input from 85...265 V AC, 50/60 Hz.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	4	ITR900-116		1



**ITR900-132**

### Power Supply Standard, 320 mA, MDRC

KNX power supplies generate the KNX system voltage (SELV).

The bus line is decoupled from the power supply by an integrated choke.

The voltage output is short-circuit and overload protected.

The two-color LED indicates device output status.

Power supply has an additional 30 V DC short-circuit and overload protected voltage output that can be used to power an additional bus line (in combination with a separate choke).

With two-coloured status indicator and wide range input from 85...265 V AC, 50/60 Hz.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	4	ITR900-132		1



**ITR900-164**

### Power Supply Standard, 640 mA, MDRC

KNX power supplies generate the KNX system voltage (SELV).

The bus line is decoupled from the power supply by an integrated choke.

The voltage output is short-circuit and overload protected.

The two-color LED indicates device output status.

Power supply has an additional 30 V DC short-circuit and overload protected voltage output that can be used to power an additional bus line (in combination with a separate choke).

With two-coloured status indicator and wide range input from 85...265 V AC, 50/60 Hz.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	4	ITR900-164		1

# System Components

## IP Router, Line Coupler



**IP Router  
ITR901-001**

**Line Coupler  
ITR901-002**

### General

Supply Voltage	21-30V DC	21-30V DC
Module width (18 mm)	2	2
Current consumption	< 40 mA	< 30 mA
ETS	ETS 4/5	ETS5

### KNX Secure

Filter Group telegrams main group 0...13	■	■
Filter Group telegrams main group 14...31	■	■
Function Repeater	-	■

### Commissioning and diagnostic functions

Control and diagnosis via ETS	■	■
Firmware update	■	-
Unicast parameterization	■	-

### Housing

Dimensions (HxWxD)	90 x 36 x 71 mm	90 x 36 x 71 mm
Mounting (IEC60715)	35 mm top-hat rail	35 mm top-hat rail
KNX bus connection	KNX connector (red/black)	KNX connector (red/black)
Ethernet connection	Ethernet connector (RJ45)	-
Weight	70 g	66 g

### Environmental Conditions

Working temperature:	-5...45 °C	-5...45 °C
Storage temperature	-20...60 °C	-20...60 °C
Ambient humidity (non-condensing)	5...93 %	5...93 %

- = Function is supported
- = Function is not supported



# System Components

## IP Router, Line Coupler



ITR901-001

### KNX Ip Router

ITR901-001 is a KNXnet/IP routing & tunneling device and works as KNX IP line/area coupler. An external power supply is not necessary. The ability to address all bus devices in the KNX bus system makes network operations less time-consuming. Operational and filtering states, malfunction and faulty communication are indicated by LEDs. UPnP is available and the firmware can be updated by a comfortable Web front-end interfaces.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	2	ITR901-001		1



ITR901-002

### KNX Line Coupler

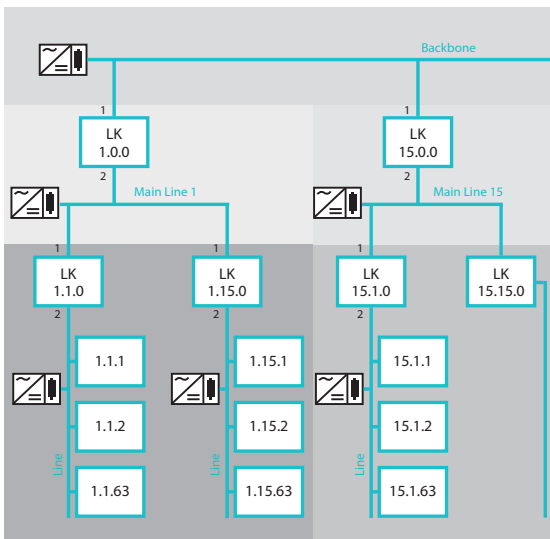
Basic functionality of the TP line coupler ITR901-002 is coupling two KNX TP lines (main line and subline) providing galvanic isolation in between. Due to its flexibility ITR901-002 coupler unit can be used as KNX line coupler or KNX area coupler (to connect a TP line to a TP area or backbone) or KNX repeater (without filtering). Operational and filtering states, malfunction and faulty communication are indicated by LEDs.

ITR901-002 is able to filter the traffic according to the installation place in the bus system hierarchy and according to the built-in filter tables for group oriented communication.

ITR901-002 supports long messages (up to 240 byte APDU length) and features, for commissioning/troubleshooting, a configurable "Manual Function" with single button press activation and automatic switch-off to temporarily deactivate filtering.

Description	DIN	Order Code	Price 1 Pc. €	Price Unit Pc.
	2	ITR901-002		1

### Typical Application

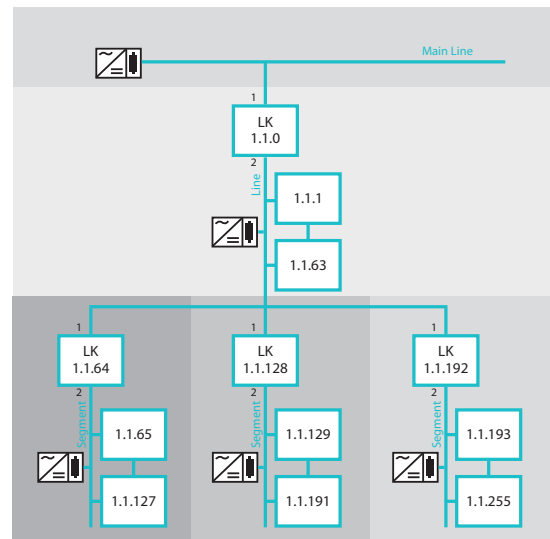


#### Topology Line Coupler

- Physical address B.0.0 (B = 1...15, Area Coupler)

- Physical address B.L.0 (B,L = 1...15, Line Coupler)

- Each line incl. main line requires its own power supply (electrically isolated).



#### Topology Line Repeater

- The repeater does not have filter tables.

- Behind a coupler up to three repeaters can be connected, so up to 256 devices per line are possible (incl. Line Coupler) → Note: Consider routing counter

- The topology is not defined with the repeater:

- Below the LK with physical address 1.1.64 the device 1.1.129 could be connected.

- The repeaters in line 1.1 can be programmed with each address from 1.1.1 to 1.1.255.

# Input Devices

## Push Button Interface



**KNX Universal Interface**  
**ITR102 / ITR104 / ITR106**

Devices	ITR102 / ITR104 / ITR106
Power Supply	EIB Power Supply
Power Consumption	50 mW
Number of Inputs	2,4 or 6
Type of Inputs	Dry Contact Inputs
Mode of Commissioning	S-Mode
Type of Protection	IP 20
Temperature Range	Operation (-5°C...45°C) Storage (-25°C...60°C)
Flammability	Non-flammable Product
Color	Light Grey
Dimensions	40x10x40 (WxLxH)
Certification	KNX Certified
Configuration	Configuration with ETS

# Input Devices

## Push Button Interface



**ITR102**

### Binary 2 Input Module

Its possible to create switching, toggle, dimming, shutter/blind control and value sending functions while its functions with dry contact inputs.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	40x10x40mm	ITR102		1



**ITR104**

### Binary 4 Input Module

Its possible to create switching, toggle, dimming, shutter/blind control and value sending functions while its functions with dry contact inputs.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	40x10x40mm	ITR104		1



**ITR106**

### Binary 6 Input Module

Its possible to create switching, toggle, dimming, shutter/blind control and value sending functions while its functions with dry contact inputs.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	40x10x40mm	ITR106		1



# Sensors/Detectors

- **Wall Mount Outdoor Microwave Sensor**
- **Wide-range Ceiling Mount**
- **Mid-range Ceiling Mount**
- **Ceiling Mount Indoor**
- **Water Flood Detector**
- **Conventional Wall Mount Motion Sensor**
- **High Bay KNX Presence Sensor**
- **Conventional Wall Mount Presence Sensor**
- **Outdoor KNX Movable Motion Sensor**

# Sensors/Detectors

## Light level and Microwave Sensors, Water Flood Detector



ITR411-002

### Wall Mount Outdoor Microwave Sensor

ITR411-002 KNX Outdoor Doppler Sensor includes 4 independent logic blocks and 1 combined logic block, the logic relation can be "AND" "OR", logic input conditions can be the condition of LUX sensor, microwave sensor, humidity sensor, temperature sensor, dry contact, external telegram.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	126x78x114mm	ITR411-002		1



ITR410-002

### Wide-Range Ceiling Mount PIR Sensor

ITR410-002 Ceiling Mount PIR & Lux Sensor is able to sense motion, temperature, and lighting intensity. Designed to be ceiling mounted the PIR sensor is able to detect a presence at up to 24meters away, making it ideal for lighting and security applications. For a tailored detection solution the PIR detection area can be partitioned via ETS software, enabling custom detection zones to be created.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	84x41,6mm (D-H)	ITR410-002		1



ITR410-001

### Mid-Range Ceiling Mount PIR Sensor

ITR410-001 a multi-functional movement sensor. It includes 4 independent logic blocks and 1 combined logic block. The logic relations "AND", "OR" can be set. The logic input conditions contain the conditions of movement sensor, LUX and external conditions. According to different application requirements, the sensor can be configured as the master-slave mode or single mode.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	63x46,6mm (Ø-H)	ITR410-001		1



ITR411-001

### Ceiling Mount Indoor Microwave Sensor

ITR411-001, includes 4 independent logic blocks and 1 combined logic block, the logic relation can be "AND" "OR", logic input conditions can be the condition of LUX sensor, microwave sensor, temperature sensor, dry contact, external telegram.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	63x46,6mm (Ø-H)	ITR411-001		1



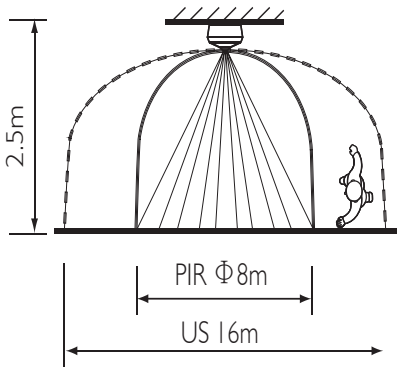
ITR401-001

### KNX Water Flood Detector

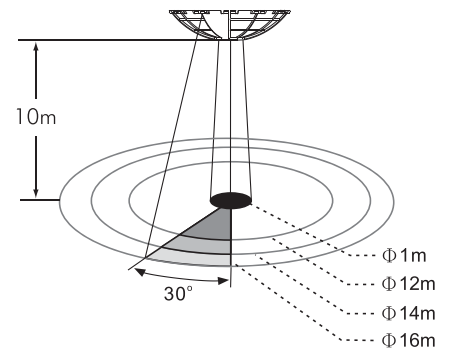
ITR401-001 flood detector is equipped with KNX system and used to detect the presence of water-based liquids at any desired location such as basements, water tanks or any hidden areas where water can leak without notice. Also Conventional model is available (Product code: ITR400-001).

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	55x88,1x21,6mm	ITR401-001		1

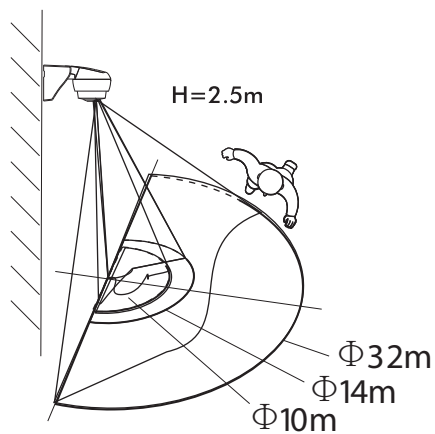
## Conventional Wall Mount Motion Sensor



## High Bay KNX Presence Sensor



## Outdoor KNX Movable Motion Sensor





# Sensors/Detectors

## Light level and Microwave Sensors, Water Flood Detector



**ITR414-001**

### Conventional Wall Mount Motion Sensor

ITR414-001 - Conventional wall mount motion sensor is a functional passive infrared detector. ITR414-001 has 360° sight angle and switching on the lighting according to ambient light level when the sensor detects movement. If there is no movement detected and the pre-set time is elapsed, the lighting will be switched off automatically. With adjustment knob Lux and Time settings can be presetted to make an energy saving and automatic control the lighting. ITR414-001 can be used at proper location in living areas such as home, office, hotel, residence, parking area, corridor etc.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	115x40mm (ØxH)	ITR414-001		1



**ITR412-001**

### High Bay KNX Presence Sensor

ITR412-001 - High Bay KNX Presence Sensor is a multi-functional presence light level and PIR sensor. ITR412-001's alarm, 2-level standby, ambient light appraisal and constant light control functions can be used to ensure comfortable life and energy saving. According to different application requirements, the sensor can be configured as the master-slave mode. Also, the sensor can be programmed using the most current ETS software. ITR412-001 is for highbay mounted between 2.5m to 10m height at proper locations.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	102x54mm (ØxH)	ITR412-001		1



**ITR410-001**

### Conventional Wall Mount Presence Sensor

ITR410-001 a multi-functional movement sensor. It includes 4 independent logic blocks and 1 combined logic block. The logic relations "AND", "OR" can be set. The logic input conditions contain the conditions of movement sensor, LUX and external conditions. According to different application requirements, the sensor can be configured as the master-slave mode or single mode.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	63x46,6mm (Ø-H)	ITR410-001		1



**ITR410-003**


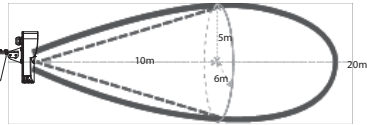


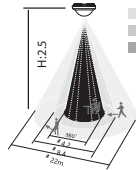

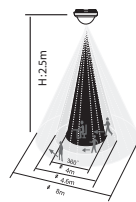

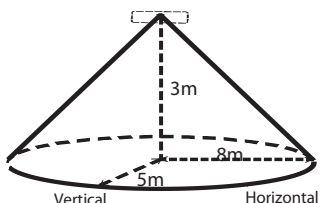
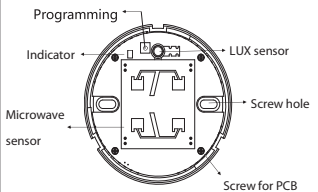

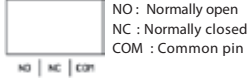
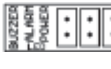
### Outdoor KNX Movable Motion Sensor

ITR410-003 - Outdoor KNX Movable Motion Sensor is a multi-functional light level and movement detector. ITR410-003 includes 5 outputs for Lighting, HVAC and Alarm control operations. The sensor should be programmed via most current ETS software. Moreover, to avoid thermal problems at high temperatures, the sensor is designed with temperature compensated circuit. ITR410-003 can be used at proper location such as home, office, building entrance, hotel, stairs, yard, parking area, corridor etc.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	Wall Mount: 150x84x90 (WxHxD)	ITR410-003		1
	Ceiling Mount: 166x111x90 (WxHxD)			


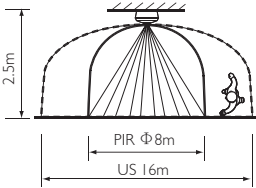
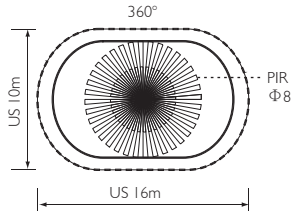

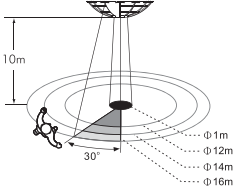
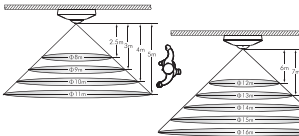

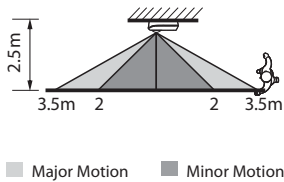
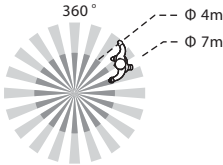

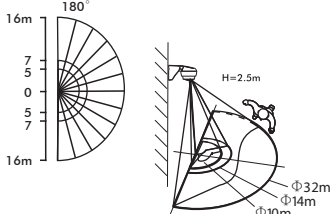
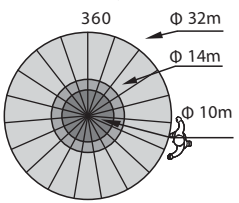
# Sensors/Detectors

## Light level and Microwave Sensors, Water Flood Detector

KNX system sensors																								
KNX sensors	Functionality		Motion detection area	Comments/ Constant light reception area																				
	Motion detector	Constant light																						
	Wall Mount Outdoor Microwave Sensor	Microwave	•	 																				
	Wide-range Ceiling Mount	Light level	•	 <table border="1"> <thead> <tr> <th>Mounting height</th> <th>Seated activity</th> <th>Walking towards</th> <th>Walking across</th> </tr> </thead> <tbody> <tr> <td>2.5m</td> <td>4.2m</td> <td>8.4m</td> <td>22m</td> </tr> <tr> <td>3m</td> <td>4.6m</td> <td>9.6m</td> <td>23.2m</td> </tr> <tr> <td>4m</td> <td>5.2m</td> <td>10.6m</td> <td>24.8m</td> </tr> <tr> <td>5m</td> <td>6.7m</td> <td>11.5m</td> <td>27.6m</td> </tr> </tbody> </table>	Mounting height	Seated activity	Walking towards	Walking across	2.5m	4.2m	8.4m	22m	3m	4.6m	9.6m	23.2m	4m	5.2m	10.6m	24.8m	5m	6.7m	11.5m	27.6m
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4m	4m	7m	10m																					
5m	4m	8m	10m																					
	Ceiling Mount Indoor	Microwave	•	 																				
	Water Flood Detector	-	-	  <table border="1"> <tr> <td>1 : Buzzer</td> <td>1 - : Immediately</td> </tr> <tr> <td>2 : Alarm LED</td> <td>2 : 1-2 : 3 sec</td> </tr> <tr> <td>3 : Power LED</td> <td>3 : 2-3 : 6 sec</td> </tr> </table>	1 : Buzzer	1 - : Immediately	2 : Alarm LED	2 : 1-2 : 3 sec	3 : Power LED	3 : 2-3 : 6 sec														
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# Sensors/Detectors

## Light level and Microwave Sensors, Water Flood Detector

KNX system sensors				
KNX sensors	Functionality		Motion detection area	Comments/ Constant light reception area
	Motion detector	Constant light		
 <p>Conventional Wall Mount Motion Sensor</p>	PIR + Light	•		
 <p>High Bay KNX Presence Sensor</p>	Presence	•		
 <p>Conventional Wall Mount Presence Sensor</p>	Presence	•		
 <p>Outdoor KNX Movable Motion Sensor</p>	PIR + Light	•		



Interra contributes to the growth of the sector with its products developed in smart home systems. By using the latest technology, it also helps to increase the quality of life and allows for a single center control system. Interra products, which are preferred both at domestic and abroad, allow you to experience a unique experience. Interra, with the success of the KNX training center, also works for the growth and development of the sector. This trainings will allow for the rapid expansion of smart building automation systems.

Starting with the training as a KNX training center, rma is a training process with its team of experts and it creates a training process by sharing how to work on the latest technology, production phase and software points. In this way, the sector will be informed and acquainted with the products. Interra, in smart home systems, is a first in Turkey as domestic capital and infrastructure.

You can develop yourself in this area and gain expertise by training in rma which serves as a KNX training center.



Since the day it was founded, Interra has become a leader in the building automation sector with the products it has developed and has met the needs of the sector in a professional way. By giving importance to R & D activities, an institutional infrastructure is being developed and developed products help to increase the level of living comfort.

The products developed with R & D center have succeeded in taking place in both domestic and foreign markets.

### Our R & D Policies

- All studies are in line with the legal process and we prepare all our strategies in accordance with our vision and mission.
- We follow the latest technologies and ensure that it is in our rma structure and we design using the latest technological equipment for product production.
- We care about the environment and provide environmentally friendly production, and we support it.
- We also provide support to the development of the sector by realizing the dirt and projects that are revealed as a result of R & D work.
- We also support the implementation of new projects through university cooperation.

Interra advances by using the latest technology in smart home systems and enables people to get closer to the future with smart automations that they develop.

Interra, which has the latest hardware and technology, is a first in Turkey by taking the internationally KNX Training Center authorization.

Interra with the KNX Training Center authorization helps the sector to win and the emergence of young minds. Interra, which serves as a leader in domestic and international points in the field of smart home systems, also provides support to people in the country to improve themselves.

With trainings, sectoral developments will gain speed, and it will give very positive contribution to Turkey's growth.

Thanks to the regular trainings which will be provided by Interra, people will be able to develop themselves in this field and also they will be able to help to the development of new projects.

As the world standard is getting global every single year, the leading companies are designing the KNX standard in the buildings throughout the world.

Today, KNX protocol is accepted as main standard in the building technologies, as well as well known infrastructure as part of the European installation regulation.

Interra, is taking a strong role to develop uniqueness innovations as member of KNX.

Interra's innovations and design solutions are accepted in highly developed countries in the world including Europe continental. Since 10 years there has been thousands of projects installed by Interra solutions.

We are proud to increase our success every single year, and being one of the strongly growing KNX member player.



# INTERRA yerli üretim ürünleri, **Türkiyenin VIP projelerine** başarıyla uygulanmıştır.



Vadistanbul



Emaar Sqare



Avrupa konutları 1-2



Suryapı Exen



Torun Center



3. Havalimanı



Skyland



Çiftçi Tower



Sheraton Ataşehir



Hilton Kozyatağı



42 Maslak



Artaş Radisson Blue





Kuzu Effect



YDA Söğütözü



Sinpaş Altınoran



Next Level



One Tower



Gala Batıkent



West Gate



Park Alyans



Mistral Tower



Iconova



Atılgan Royal



Sunis Blue



## The best boast for your business...

The most effective way to tell your customers products systems, Interra demo kits.

Pre-programmed demo kit for touch panel and KNX system. KNX combo, KNX power supply and dimmer.

The kit is custom-made, completely live system lighting, curtain controls can be easily explained to the customer through lamps.

Is switch demo box, In this demo box, iswitch series can be shown with 8 different product and material samples.

It is prepared with coating and protection sleeve on special wooden box.

Interra design team offers free design work for your showromm or fairs.

Products of the specified dimensions are placed and magnificent stands are prepared with explanations.

**The basic need of your entire team, your dealers and excellent investment.**





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