ABOUT ASTRUM 2021



BASICS OF ASTRUM





Begin 2012 in Istanbul

HQ - R&D in Istanbul

Hong-Kong Trading Office



Expert team on Smarthome,
BMS and IoT



Lean methodology is on every aspect of our company

MEMBERSHIPS & CERTIFICATES



CEDIA[®]
MEMBER

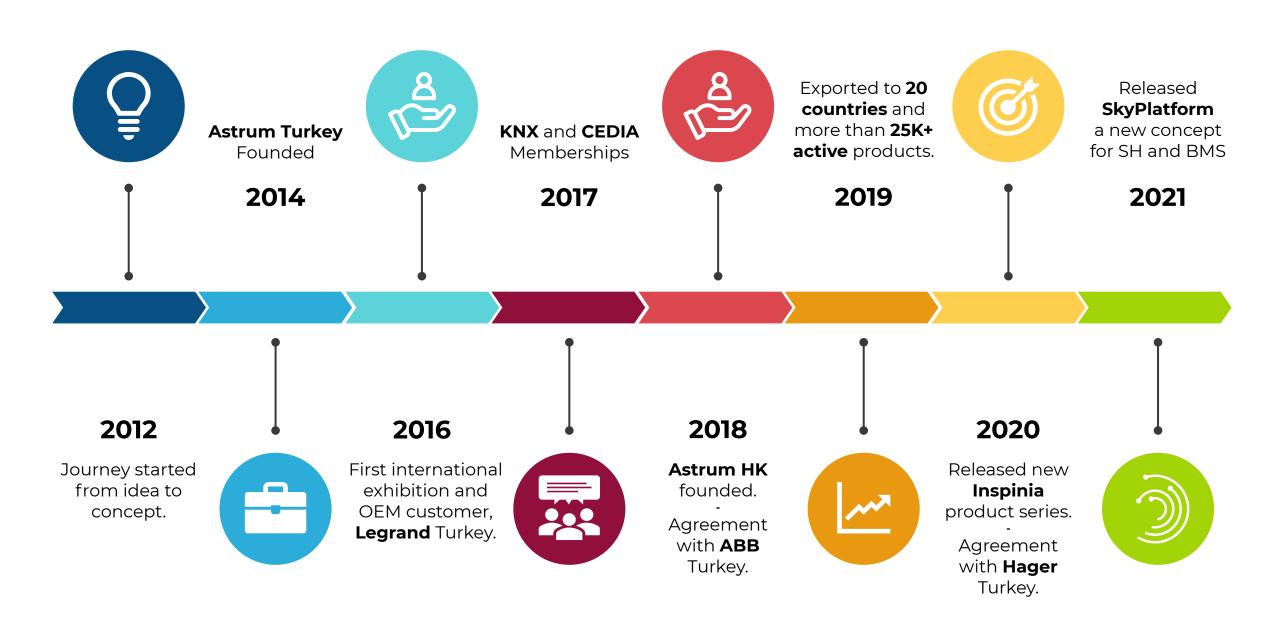


INTELLECTUAL PROPERTY RIGHTS



All hardware and software developments are %100 done by our expert team and all intellectual property rights belongs to us.

HISTORY



BRANDS



Our web-based cloud platform where Skything framework based products can be configured and monitored.

www.skyplatform.io



Inspinia series of products are based on the Skythings framework and specially designed for smart home, smart building and hospitality automation.





Framework designed to run with low system requirements for embedded systems which allows a flexible programming structure and a large library that is constantly developing.

Synergy

New brand on smart air conditioning and energy management. A series of products based on the Skythings framework and programmable with Skyplatform.



:hager









WHERE WE REACH

Over 50,000 active products in hundreds of projects. Dozens of domestic and international elite projects have been completed successfully.

- Residences
- Hotels
- Offices
- Commercial Buildings
- Shopping malls
- Hospitals
- Public buildings

40+ COUNTRIES 100K+ ACTIVE PRODUCTS 250+ ACCOUNTS



GREECE AZERBAIJAN LITHUANIA LEBANON ISRAIL CYPRUS MOROCCO ROMANIA CZECHIA RUSSIA ITALIA QATAR SAUDI ARABIA **JORDAN ESTONIA EGYPT GERMANY TAIWAN TUNISIA FRANCE KAZAKHSTAN OZBEKISTAN** UNITED KINGDOM

IRAQ

IRAN

UAE

GANA

SINGAPOUR

AFGHANISTAN AUSTRALIA

INDIA PAKISTAN

PRODUCTS & SOLUTIONS

2021



















SKYPLATFORM







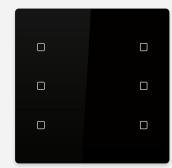


BASED ON FRAMEWORK











SKYPLATFORM ADVANTAGES



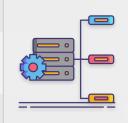
Online configuration and programming devices via cloud



Always up-to-date software with flow-based programming



Live monitoring of products and connected devices via cloud



Multiple device configuration and programming via cloud



Data collection from devices with filtering and importance criteria



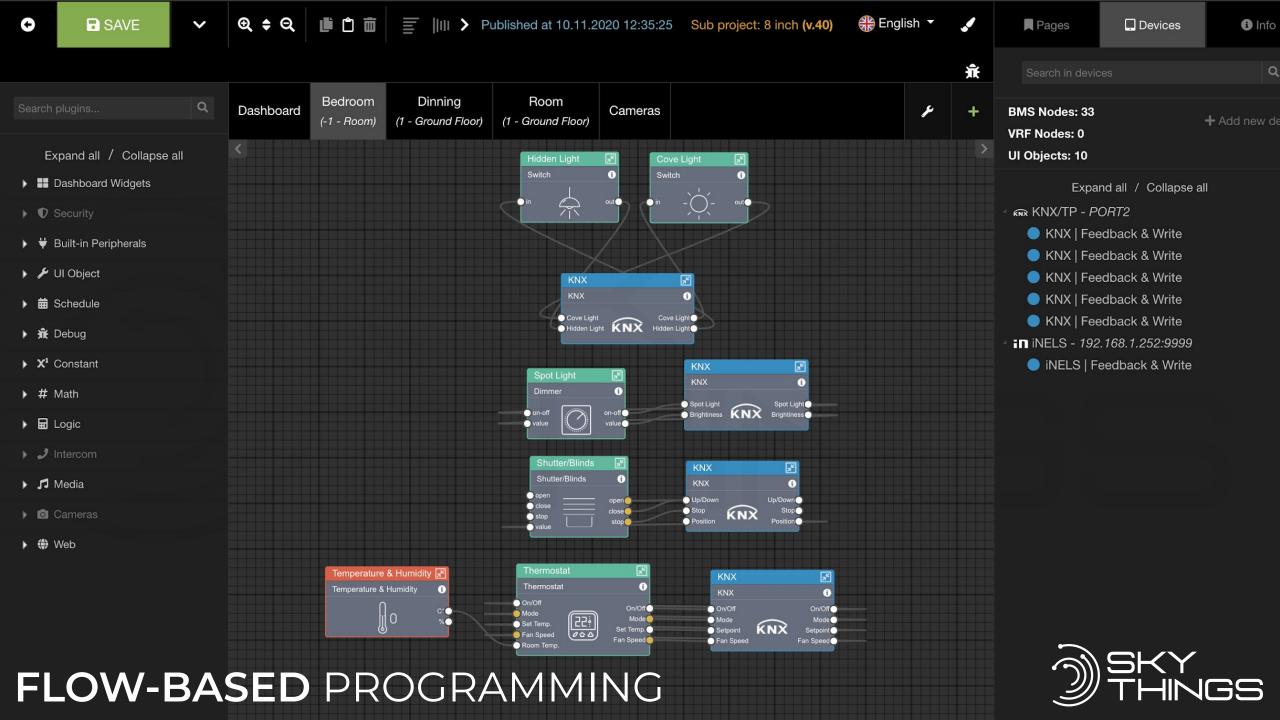
Analysis of collected data and detailed reports



Import/export configuration files and parameters



Easy integration possibility with Rest API





Skythings framework is the core software of our smarthome, building management and energy management products. Applications built on this framework, allows integrators wide range of capabilities and solutions in projects. Skythings configuration and programming based on cloud and uses native drivers to access to many protocols simultaneously. Skythings framework is configured by Skyplatform which is a flow-based configuration platform.

Framework Features

- Multiprotocol operations
- Logic functions
- Math functions
- Data logging
- Protocol gateway
- Centralized management

- Online icon library
- Up to 5000 data points
- Scene creation
- Astronomical time
- Scheduled operations

- Flow-based easy programming
- Editable UI interface
- Online/Offline configuration
- Cloud programming
- Live monitoring
- Built-in web server/interface

Supported Protocols























Supported HVAC VRF Brands







DAIKIN HISENSE SAMSUNG A MITSUBISHI







PRODUCT RANGE

















SMART TOUCH PANELS 4/8/10 INCH

KEYPADS AND ACTUATORS

CONTROLLERS AND SERVERS PROTOCOL GATEWAYS



MOBILE APP



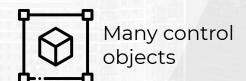


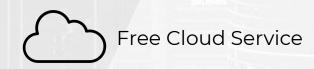


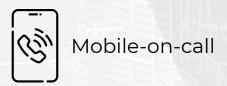












CONNECTIVITY APPROACH









All products are compatible with our future-proof add-on concept. Various kind of add-on modules allows to extend the connectivity options of products such as; KNX, RS485, HVAC systems, Lighting Systems and other wired and wireless protocols natively.





KNX





















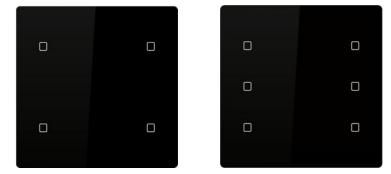


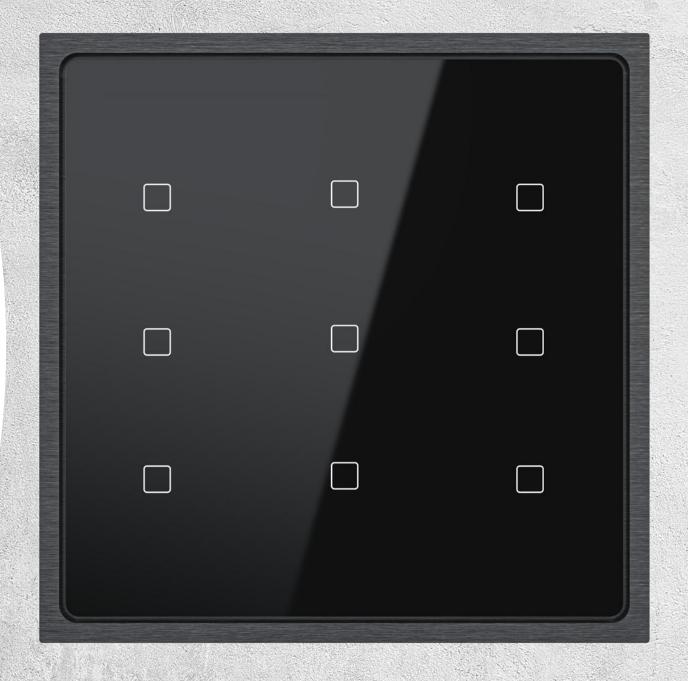
KEYPADS & ACTUATORS



STANDARD 9 TOUCH POINT









ALL-IN ONE SOLUTION

CUSTOMIZABLE KEYPAD

LASER MARKING ARTWORK

THERMOSTAT FUNCTION

ROOM CONTROLLER

JALOUSIE



DIMMER

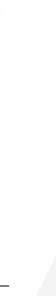


TOUCH GLASS KEYPAD SPECS













Temperature & **Humidity Sensor**



1.5" Oled LCD 128x64px



Ethernet (POE)



1/0 1x1,1x0



1 x Add-On Port







Metal Frame Options Black / Silver / Gold



Motion Sensor

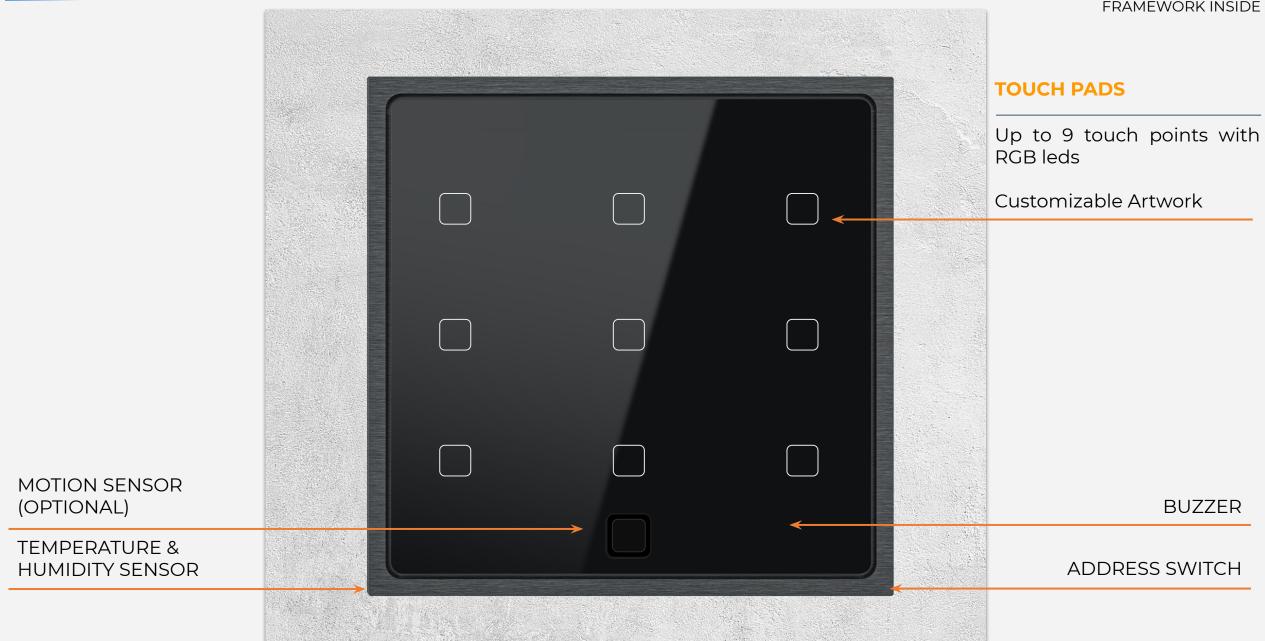


Box Standards

- German Box
- 2M Italian Box

INSPINIA KEYPAD





INSPINIA KEYPAD THERMOSTAT

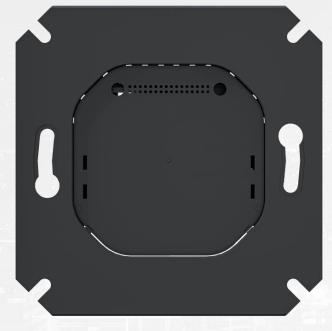


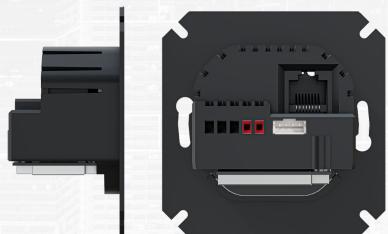




BUS COUPLING UNIT SPECS









Compatible with 4" Touch Panel & Keypads



Ethernet (POE / PPOE)



1x Add-On Port



Zigbee (Optional)

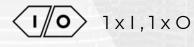


Compatible Box Standards

- German Box
- 2M Italian Box



Bluetooth (Optional)



2 DIFFERENT BCU OPTIONS:

BCU-S24

- 24VDC IN + PASSIVE POE

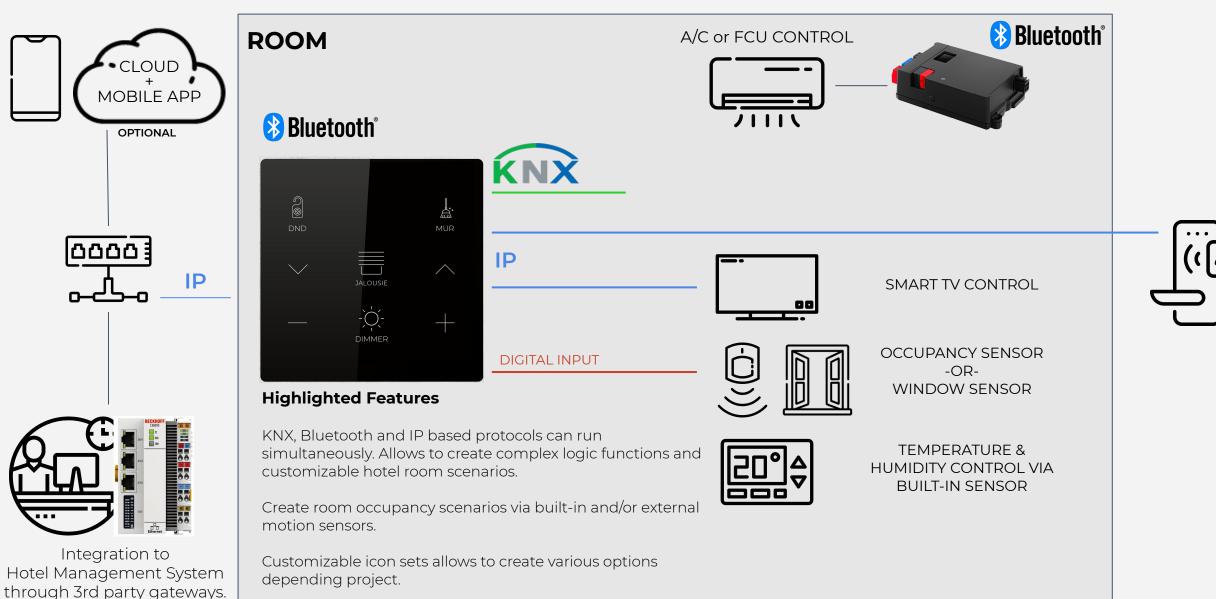
BCU-POE

- ACTIVE POE

HOSPITALITY SOLUTION w/IT-S9F



This example presents how Inspinia Keypad controls various products in a hotel room.

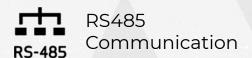




NIO8 ACTUATOR









(I/O) 8 x Digital Input

(1/0) 8 x 10A Relay

Cost-effective solution to control lights, shutters, valves etc. Suitable for residential, hospitality and hvac control solutions.

Compatible with INSPINIA Touch panels and keypads.

TOUCH PANELS & ROOM CONTROLLERS



SMART TOUCH PANELS











HIGHLIGHTED FEATURES

- ANDROID / LINUX BASED OS
- 4/8/10 INCH OPTIONS
- CLOUD MOBILE APP & VOIP INTERCOM
- CONFIGURABLE UI, DASHBOARD WIDGETS
- LIGHT, SHUTTER, AIR CONDITIONING, MULTIMEDIA, CAMERAS AND 10+ VARIOUS CONTROL OBJECTS
- FLEXIBLE PROGRAMMING, 10000+ ONLINE ICON LIBRARY
- SUITABLE FOR SMART HOME AND SMART HOSPITALITY
- METAL FRAME & BAR OPTIONS
- SUITABLE FOR RETROFIT APPLICATIONS (ON-WALL)
- CONNECTIVITY OPTIONS VIA ADD-ON MODULES





INSPINIA 4 MODELS







INSPINIA 4RT ON-WALL TOUCH PANEL







Linux Based OS w/ SkyThings Framework



Temperature Sensor



4" Capacitive Panel IPS, 400 Nit LCD



Humidity Sensor



Wi-Fi



Bluetooth



RS485 Communication



Haptic Feedback



Ambient Light (Side RGB Leds)



1W Speaker



4x Microphone



RETROFIT APPLICATION EXAMPLE



This example presents retrofit solution of Inspinia 4W. Device can connect different RF protocols, as well can control IP VRF BOX based products and act as gateway. Allows cloud mobile app SWITCH control through Wi-Fi. **DETECTORS** RF BULB **INSPINIA 4** ONWALL **TOUCH PANEL** Bluetooth or 2 zigbee



INSPINIA 4SQ TOUCH PANEL

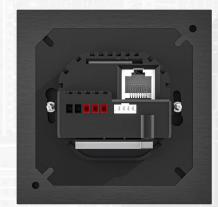


92mm



INS4SQ







Linux Based OS w/SkyThings Framework



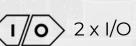
Ethernet (POE/PPOE) (BCU Option)



4" Capacitive Panel IPS, 400 Nit LCD



Temperature & Humidity Sensor





1x Add-On Port



Metal Frame Options Black / Silver / Gold



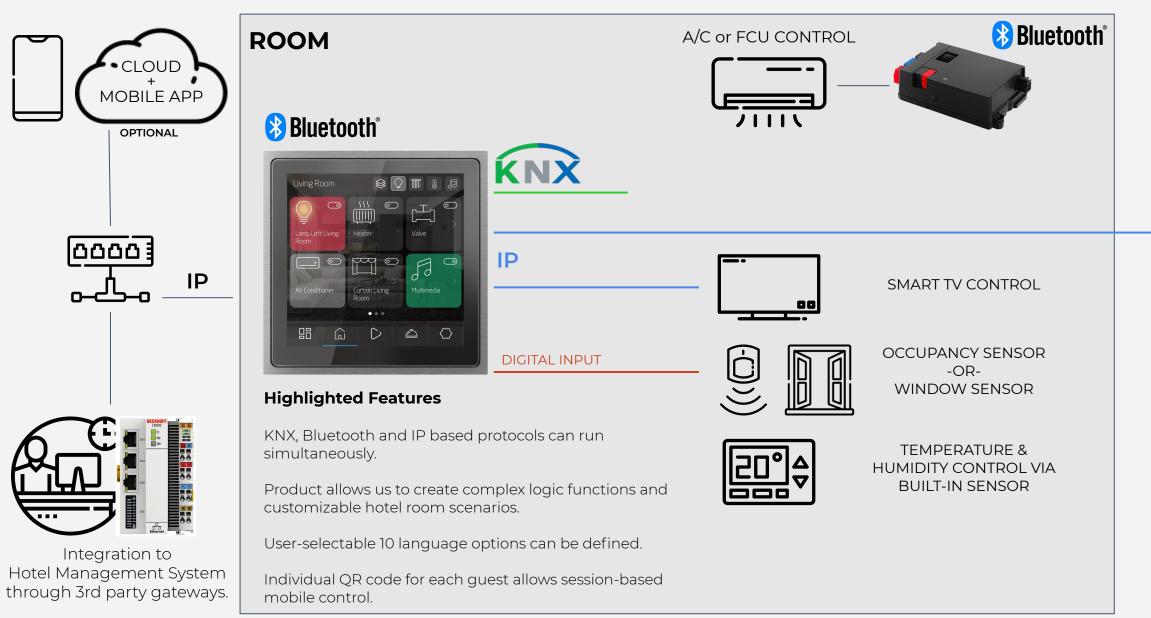
Compatible Box Standards

- German Box
- 2M Italian Box

HOSPITALITY SOLUTION W/ INS4SQ



This example presents how Inspinia 4F controls various products in a hotel room.





INSPINIA 8/10 TOUCH PANEL SPECS







2 x 2W SPEAKERS



ANDROID 6.0





QUAD CORE CPU

- + 1 GB RAM
- +8GBMMC





5 POINT MULTI TOUCH



POE GIGABIT ETHERNET



2.4 GHZ ANTENNA



MICROPHONE



TEMP SENSOR



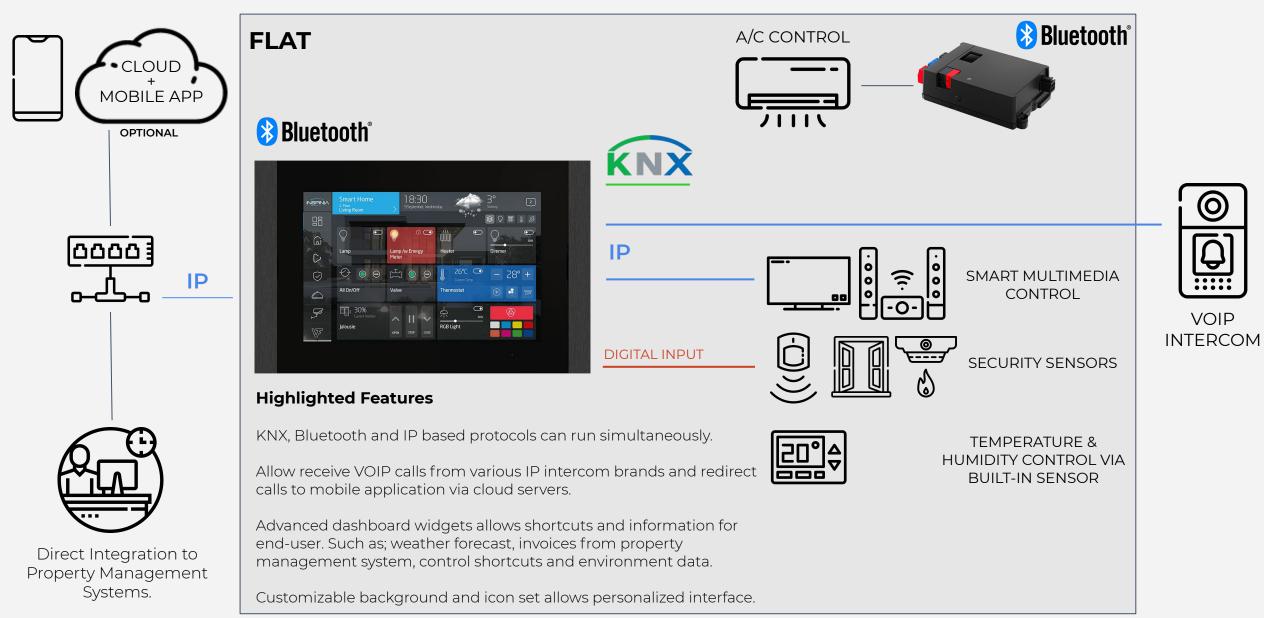
HUMIDITY SENSOR

RESIDENCE SOLUTION - INS8SQ / INS10SQ



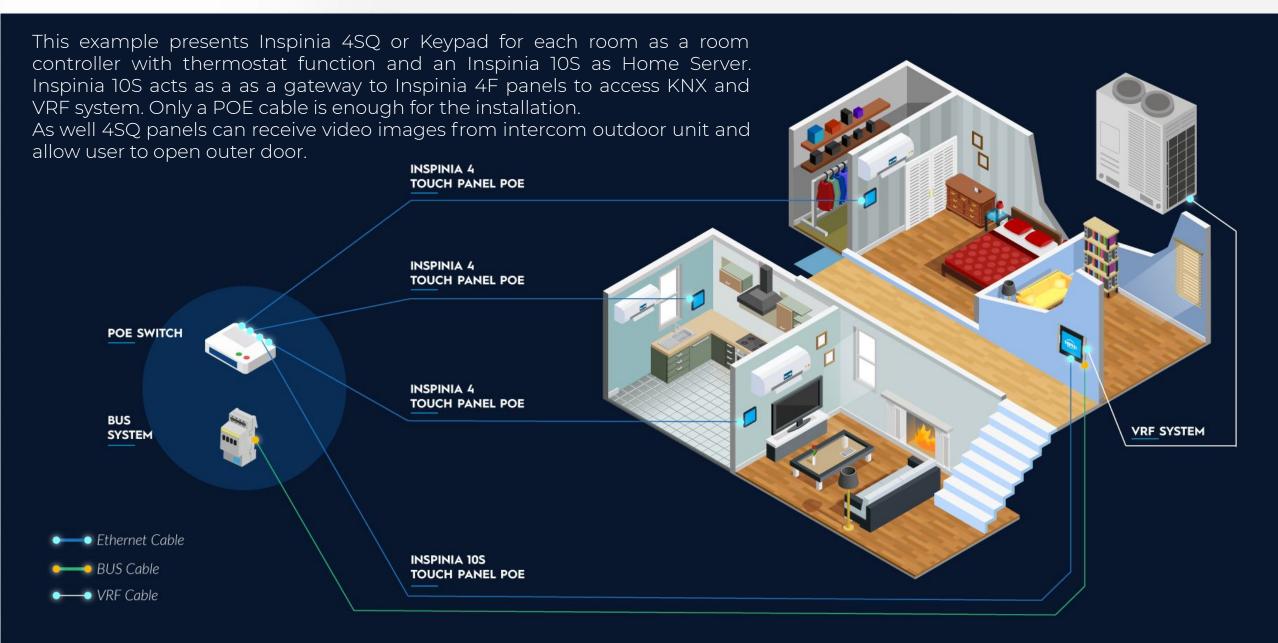
VOIP

This example presents how Inspinia 8F controls various products in an apartment.



SMARTHOME WITH HVAC EXAMPLE





SERVERS & INTERFACES



SERVERS & INTERFACES



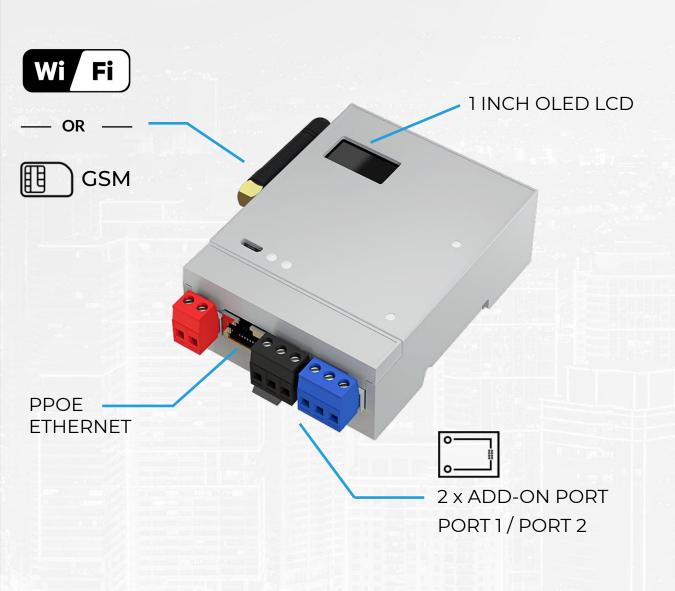
HIGHLIGHTED FEATURES

- ANDROID / LINUX BASED OS
- CLOUD MOBILE APP & VOIP INTERCOM
- LIGHT, SHUTTER, AIR CONDITIONING, MULTIMEDIA AND VARIOUS CONTROLS
- FLEXIBLE PROGRAMMING
- EMBEDDED WEB INTERFACE FOR LOCAL CONTROL
- CONNECTIVITY OPTIONS VIA ADD-ON MODULES
- SUITABLE FOR SMART HOME, SMART HOSPITALITY AND BUILDING MANAGEMENT
- SUPPORT VARIOUS WIRED AND WIRELESS PROTOCOLS



MINI SERVER





HIGHLIGHTED FEATURES

- CLOUD MOBILE APP
- EMBEDDED WEB INTERFACE
- FLEXIBLE PROGRAMMING
- CONNECTIVITY OPTIONS VIA ADD-ON MODULES
- SUITABLE FOR SMART HOME, SMART HOSPITALITY AND ENERGY MANAGEMENT
- SUITABLE FOR M2M APPLICATIONS
- ALLOWS GSM CONNECTION
- SUPPORTS VARIOUS PROTOCOL WIRED AND WIRELESS UP TO 1000 POINTS

BASED ON FRAMEWORK STHINGS



AIRCON INTERFACE









5 different brands are supported at the moment and we constantly work on to support different brands.

External temperature sensor input allows to get real data from the filed.





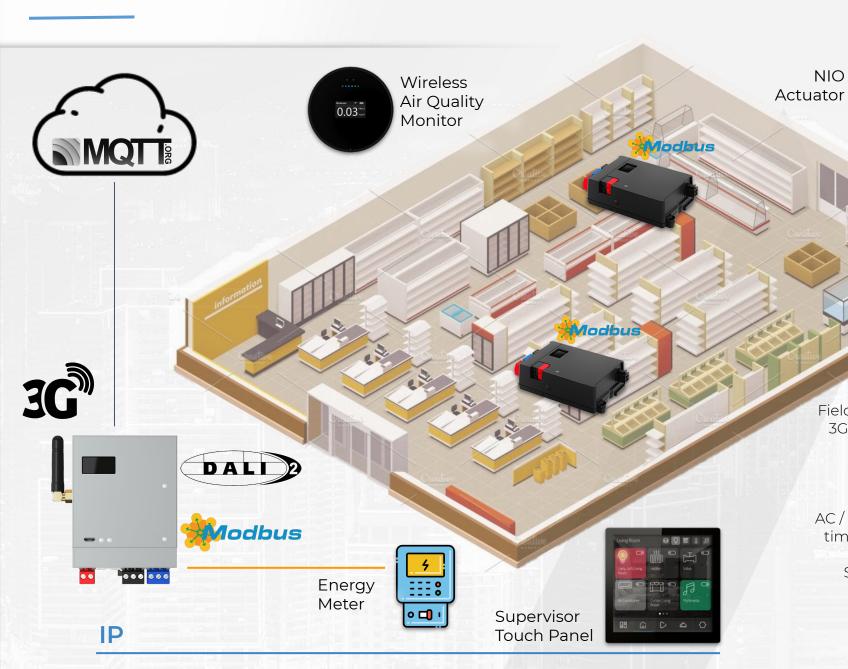
Bluetooth 5.0 Technology as Default



Product also have KNX connectivity as an option.

ENERGY MANAGEMENT APPLICATION EXAMPLE





Highlighted Features

Modbus, Dali, IP protocols, 3G communication and visualisation touch panel can run simultaneously.

Field data can be collected on cloud server through internet or 3G GSM communication. Data also can be logged at SD card.

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Modbus

Miniserver allows to create complex logic functions and customizable scenarios through cloud.

AC / FCU interface with external temperature sensor allows real time temperature measurement and air conditioning control.

Supervisor touch panel allows to control all the functions of system and gives visualisation to store manager.

Rules created on cloud can run on Miniserver offline.

THANK YOU



www.astrum.eu | sales@astrum.eu