SMART HOME

Sentido

About Us

The Sentido intelligent control system encompasses Buspro, Zigbee, and KNX systems. Buspro is Sentido's proprietary system using the RS485 protocol, connecting easily with common devices. Buspro enhances flexibility in projects Sentido became part of the international standard KNX in 2024. All three systems seamlessly work with conventional electrical equipment, allowing control through wall panels, smartphones, tablets, and computers. Sentido systems are applied in various building types, ranging from homes and hotels to offices, large venues, transportation hubs, and others.

Distinguished by an expansive marketing and service network, we boast a substantial presence with over 23 branches and representative offices strategically positioned across Iran and Asia. Our unwavering commitment is to provide swift and top-tier services, ensuring the utmost satisfaction of our valued clients.

Opening of the company — 2019

Product design and production — 2020

Service expansion — 2021
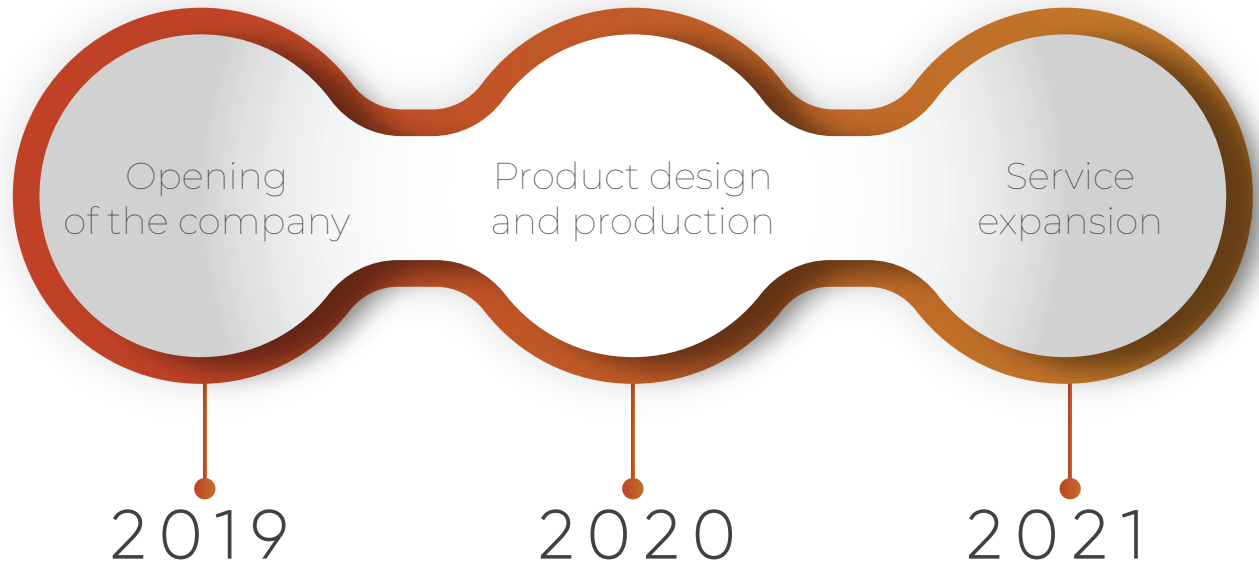
23
Branches

Protocols ———— 4

Interface Panel ———— 10

Actuators ———— 26

Home Audio ———— 30

KNX Products ———— 34

softwares ———— 40

Protocols

Sentido

- buspro
- KNX
- DALI
- zigbee
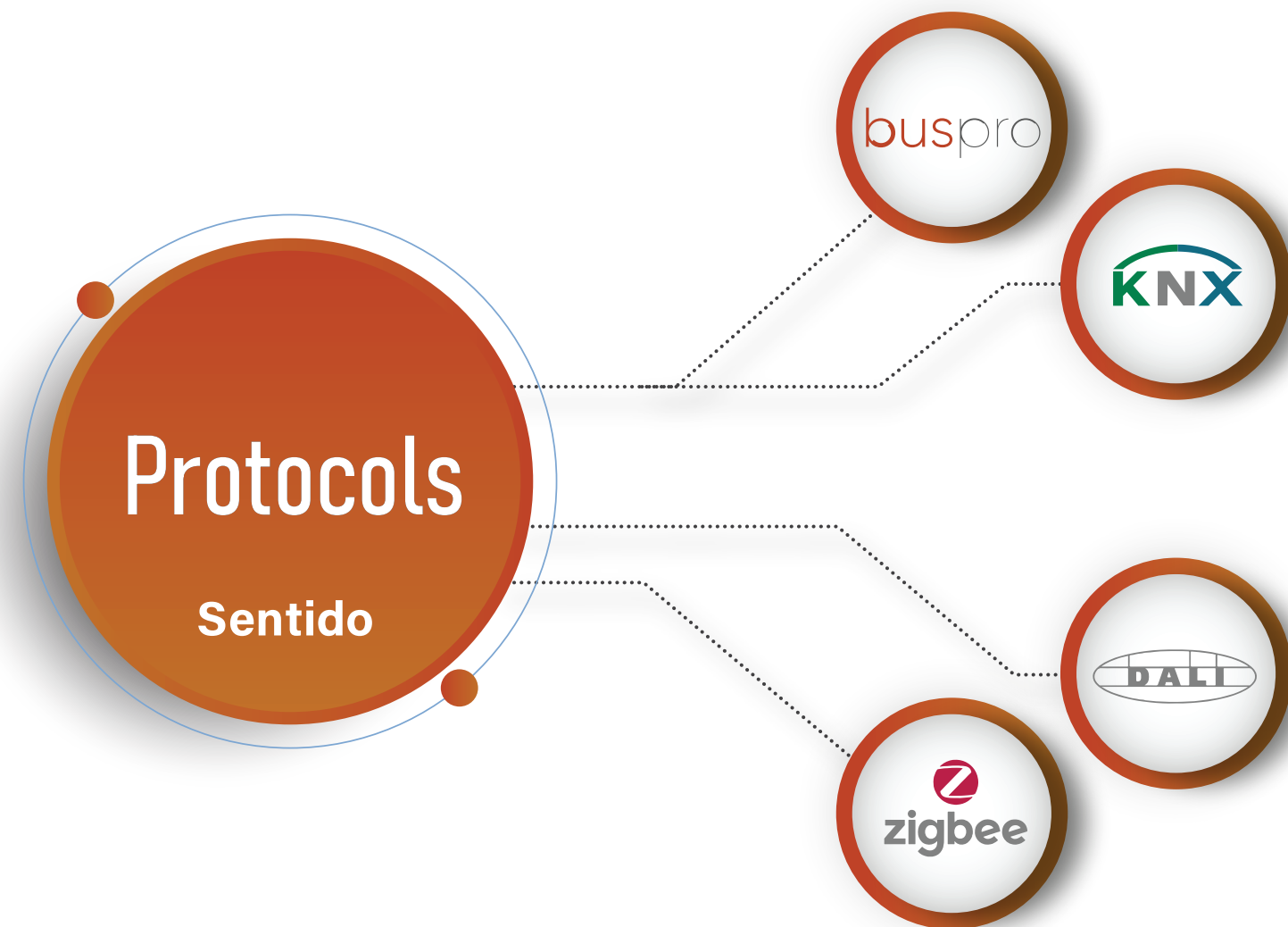
Home automation is an

emerging phenomenon that is increasing in popularity. Homeowners are installing all types of devices to make their homes "smarter." Home automation comes with many benefits, but it also brings new challenges when it comes to communications protocols. There are many different protocols that you may come across when purchasing smart home products, such as sensors, lighting, thermostats, and door locks. When shopping for your next smart device or system, you should know which protocol is best for your needs.

What are Home Automation Communication Protocols? Home automation is a system that can automatically control various household devices. Home Automation systems are now prevalent as they help us to save time and effort. Home automation works by controlling different appliances in the home such as lights, heating/cooling, security cameras, etc. Home automation communication protocols vary but have some standard features, which I will look at in more detail below.

Benefit from KNX A future-proof technology The smart home and building market is constantly changing and technology is improving fast. However, the latest technologies, such as the Internet of Things, are already part of our current software. We don't wait for new ideas, we come up with them. The KNX technology is a reference in home and building control. Any automation solution you're using today will have our innovation at its core. By using KNX you will always be one step ahead of your competitors. An integrated solution KNX has 28 years of experience in building automation. You can work with different products from different manufacturers. KNX can even be coupled to other systems and is independent of any hardware- or software technology. Moreover, our technology can be used in both new as well as existing buildings. A KNX installation can be easily extended and adapted to new needs, with little time and financial investment. KNX can be implemented in both small-family houses as well as large buildings
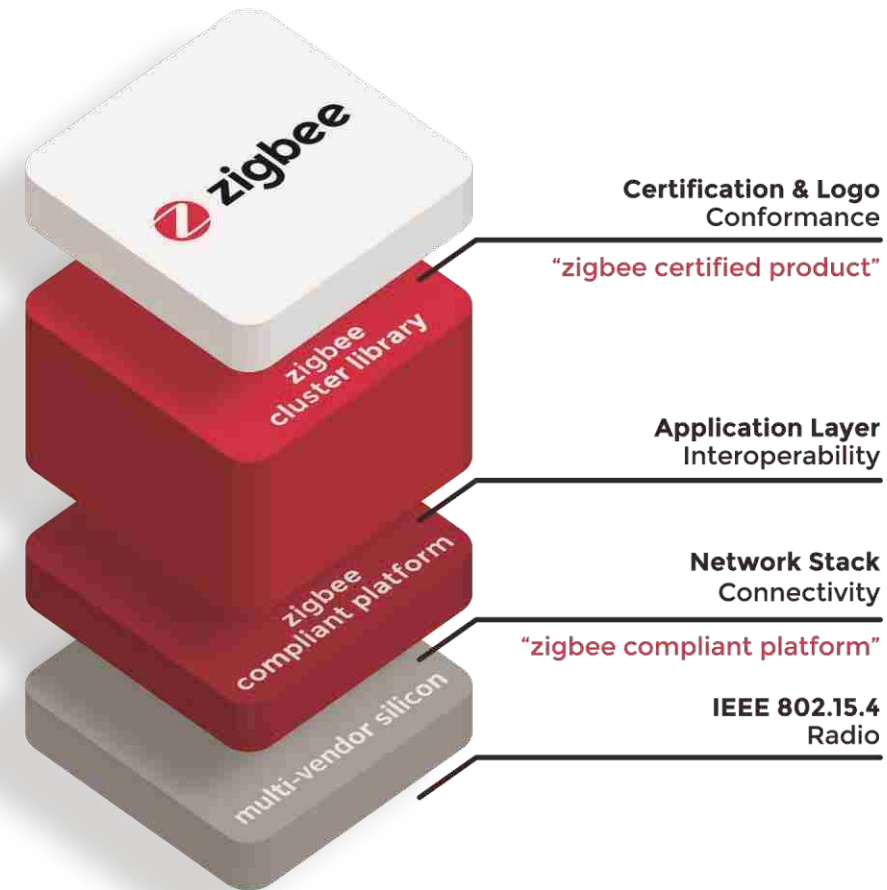

buspro

What is Buspro?

Buspro is a smart system for homes, commercial buildings, and hotels. It can integrate lighting, shading, air-conditioning, floor heating, background music, security, and more functionality and features, and allows users to control everything on a mobile app, PC program, or wall panel. What's more, with sensors and logic settings, tasks can be automatically run by the system as well. It is a wired system developed by Sentido and runs on its proprietary communication protocol. So, it is also known as sentido Buspro.

How does it work?

Buspro consists of software, control panels, controllers or, actuators),
sensors, gateways, audio devices and infrastructural devices. These devices make up a combination to serve for a certain project. And the "combination" of devices is called a solution.
A controller (say, a relay module) connects with the control target (say, a light bulb) through electrical wires on one side, and connects with the system via Buspro cables on the other side. For a minimum solution, we will need a power supply module to provide the solution with 24V DC power. Then we need a Buspro IP Gateway to link the system to the Internet, so that users can control the system with a phone or PC. More devices can be added to the solution for more features, such as a wall panel, sensor, logic module, etc.

zigbee

Certification & Logo
Conformance

"zigbee certified product"

Application Layer
Interoperability

Network Stack
Connectivity

"zigbee compliant platform"

IEEE 802.15.4
Radio

Why Zigbee?

Zigbee is the Alliance's flagship technology and provides a full-stack solution that allows products to interoperate with the IoT's most frequently used devices. Zigbee enables products to enter into the most important ecosystems, get to market quickly, and gain access to the industry forefront.

Market-Proven and Secure Low-Power Mesh Solution Zigbee-certified products connect and communicate using the same IoT language with each other, and millions of Zigbee products are already deployed in smart homes and commercial buildings today. Zigbee is built with backward & forward compatibility in mind. It increases choice and flexibility for users and developers and delivers the confidence that products and services will work together through standardization and testing of all layers of the stack.
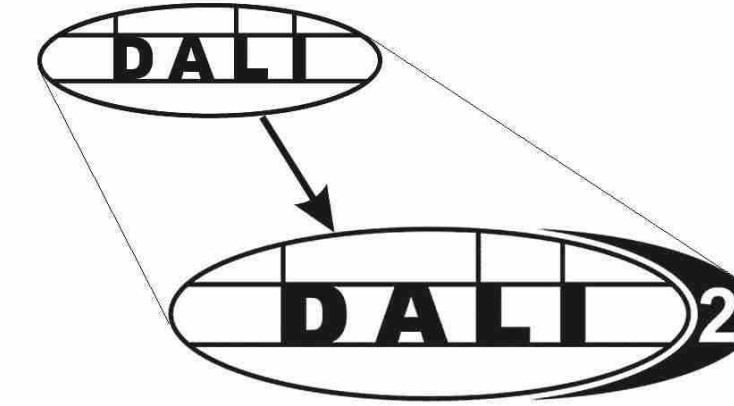
Introducing DALI

DALI, or Digital Addressable Lighting Interface, is a dedicated protocol for digital lighting control that enables the easy installation of robust, scalable and flexible lighting networks. DALI was originally developed to allow digital control, configuration and querying of fluorescent ballasts, replacing the simple, one-way, broadcast-like operation of 0/1-10V analog control. With DALI, the broadcast option is also available; in addition, with simple configuration, each DALI device can be assigned a separate address, allowing digital control of individual devices. Furthermore, the DALI devices can also be programmed to operate in groups. This provides excellent flexibility since the lighting systems can be reconfigured by software reprogramming, without the need to change the wiring. Different lighting functions and moods can be achieved in different rooms or areas of a building, and then easily adjusted and optimized. The digital nature of DALI allows two-way communication between devices, so that a device can report a failure, or answer a query about its status or other information. Wiring is relatively simple; DALI power and data is carried by the same pair of wires, without the need for a separate bus cable. The polarity of the wires does not have to be observed, in contrast with 0/1-10V systems where wiring errors are common.

DALI-2 vs DALI version-1

DALI is the industry-standard protocol (language) for bi-directional, digital communication between lighting-control devices. The DALI protocol is specified in the multi-part international standard IEC 62386, as well as in specifications written by the DALI Alliance. DALI-2 is the certification program that is based on the latest version of the DALI protocol. DALI-2 certification is created and maintained by the DALI Alliance. DALI version-1 refers to an older version of the DALI protocol, which only included control gear. Other products, notably control devices such as application controllers and input devices (e.g.sensors), as well as bus power supplies, were NOT included in DALI version-1. DALI-2 is focused on the interoperability of products from different vendors, and the DALI-2 certification program confirms the compatibility of products with the relevant specifications. DALI-2 requires rigorous testing and verification of the test results by the DALI Alliance.

buspro

SMART HOME
INTERFACE PANEL

MAJESTIC

Touch Screen full color

SE-MAJ.TP-XX

Color capacitive touch display
Customizable UI
Built-in proximity sensor
Built-in temperature sensor
Built-in real-time clock
Aluminum frame
Supports online upgrade
Power supply: DC 24V

60 buttons to control
lighting
curtain
scene
Control of
9 zones music
9 zones AC
9 zones floor heating
LCD resolution 480x272,
Built-in temperature sensor

Size: 86 x 116.5 mm (US)
Power supple: DC 24V

MAJESTIC

Touch Screen full color

SE-MAJ.TP-XX

to select a frame and color of glass
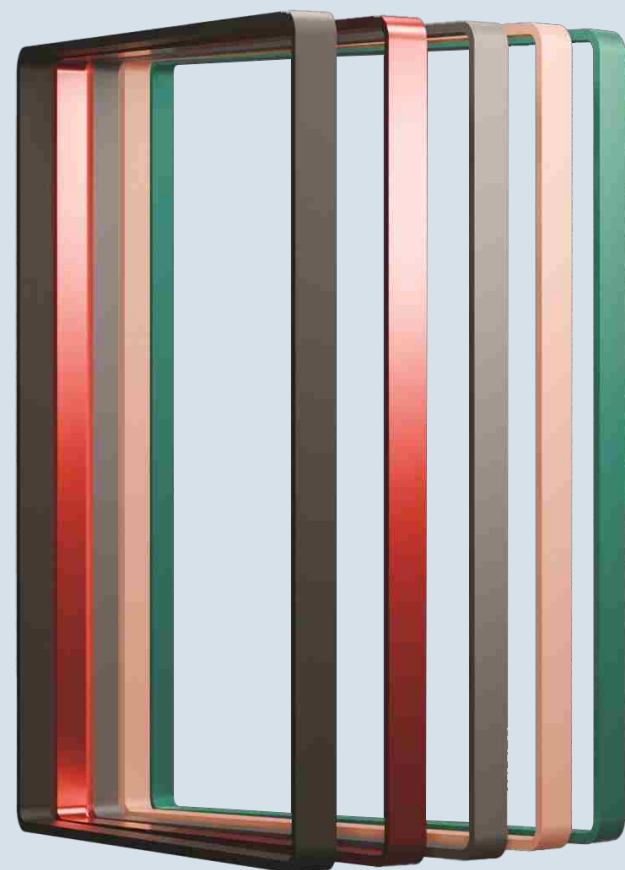
Turquoise Blue
Copper
Silver
Red
Gray...

Available for: buspro

to select a frame and color of glass

White / Gray / Black

Ac
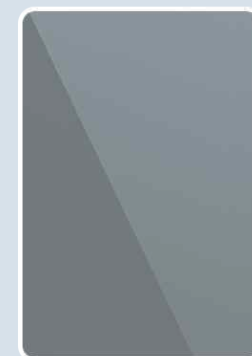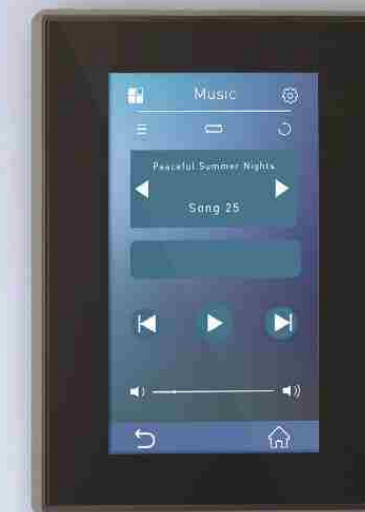
Floor Heating

Music

Lights

Curtains

AURORA
Touch

- Adjustable LCD backlight and LED indicator.
- Multipage, Specified page for floor Heating, HVAC, music control function.
- 32 buttons to control the lighting , curtain , scene
- Icon for Key Buttons can be defined by user.
- Button indicator's color is RGB.
- Shortcut button function.
- Button combination and Double Button combination function available.

4 Multiple used to:

control the lighting, curtain, scene

1 page for music

1 page for AC

1 page for floor heating

4 shortcut pages

Built-in temperature sensor

Size: 86 x 116.5 mm (US)
Power supple: DC 24V

Available for: buspro

AURORA

Touch

to select a frame and color of glass
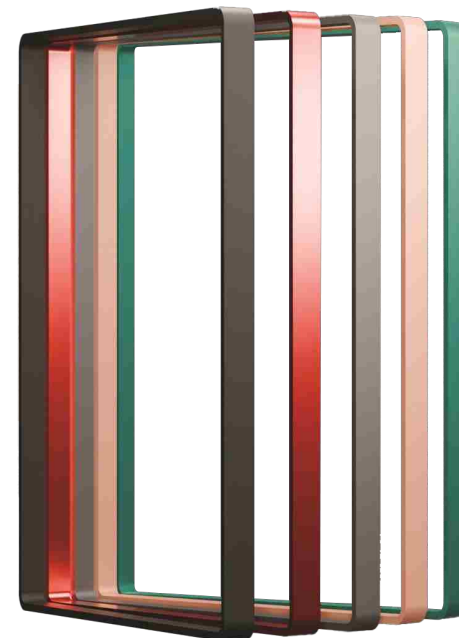
Turquoise Blue
Copper
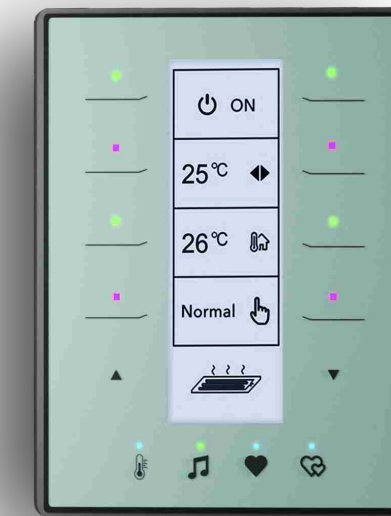Silver
Red
Gray...

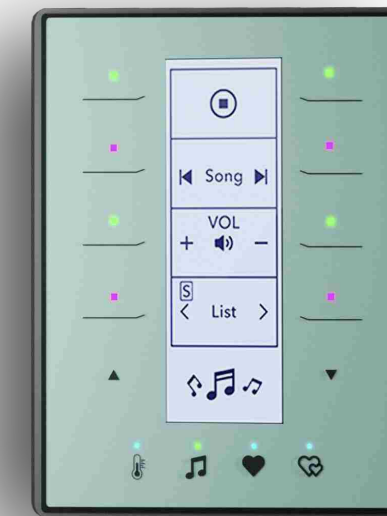to select a frame and color of glass

White / Gray / Black

Ac

Floor Heating

Music

Curtains
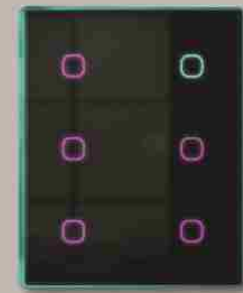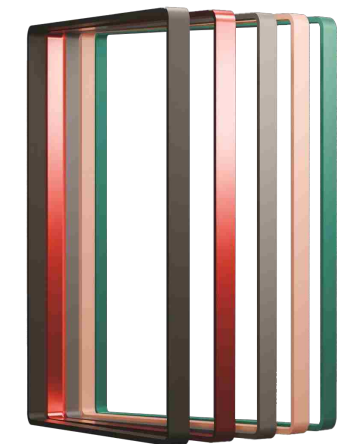
Lights

VEGA 6
Touch

Lighting

Curtain

Scenes

LED backlight and LED indicator
Built-in temperature sensor

Size: 86 x 86 mm (EU), 86 x 116.5 mm (US)
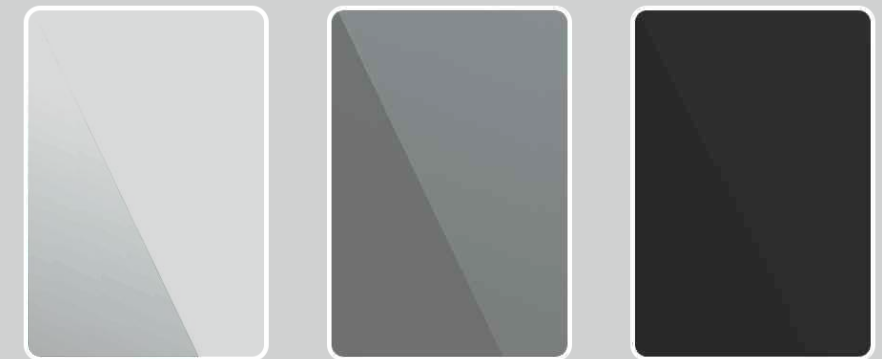Power supple:
DC 24V

Available for: buspro

to select a frame and color of glass

Turquoise Blue - Copper - Silver - Red - Gray...

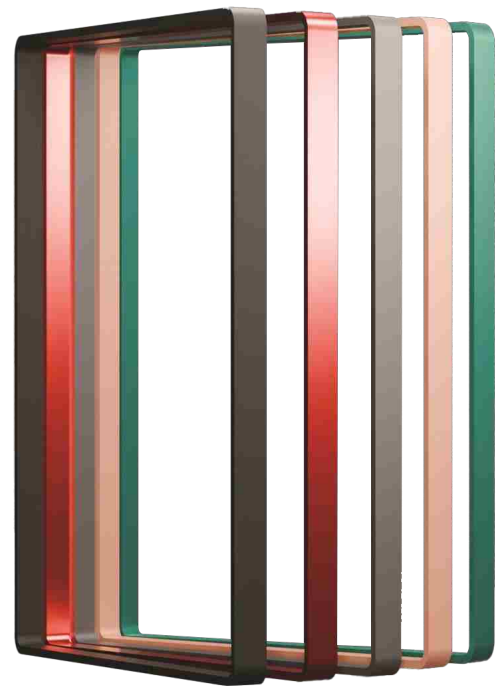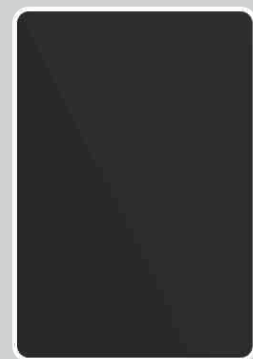to select a frame and color of glass
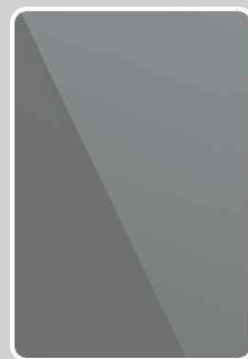
White / Gray / Black

VEGA 4
Touch

to select a frame and color of glass

to select a frame and color of glass

White / Gray / Black

Size: 86 x 86 mm (EU), 86 x 116.5 mm (US)
Power supple:
DC 24V
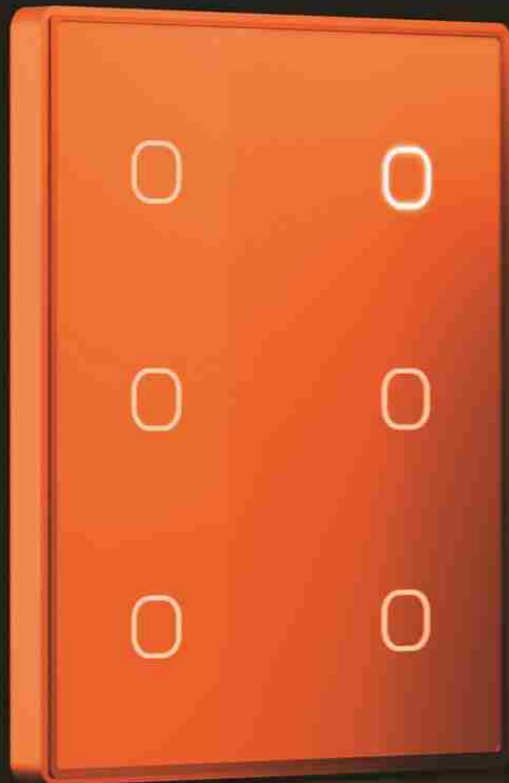Colors: Black - White - Silver and your special colors
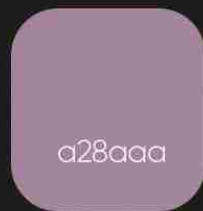
Available for: **bus**pro

SPECIAL COLOR

Order various colors according to your taste
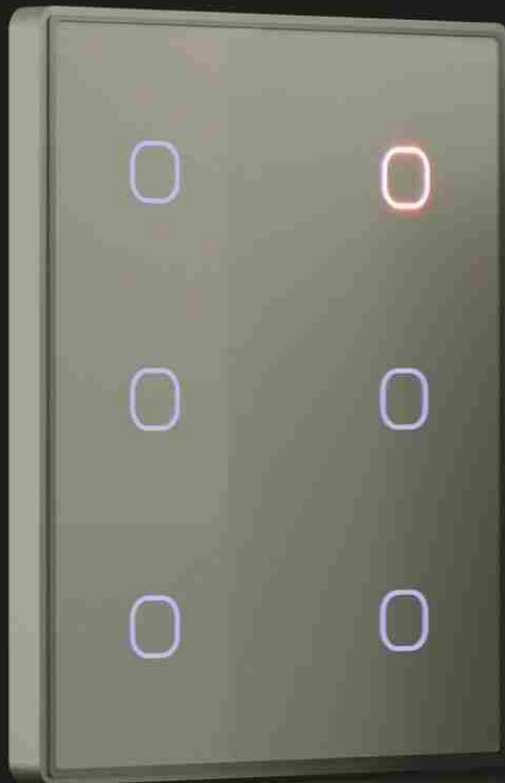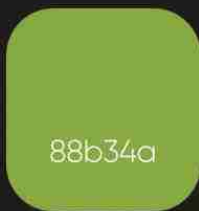
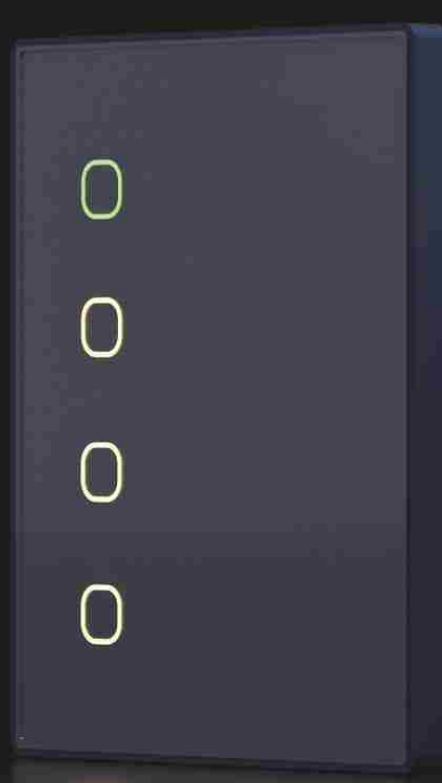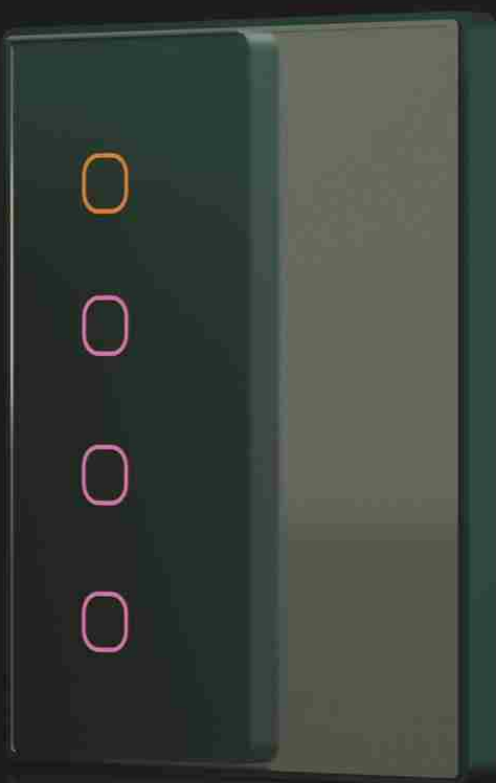|						
ff5800	7c8c82	a28aaa	88b34a	1a335b	b5c7d3	024136
Orange	**Iceberg Green**	**Rhapsody**	**Greenery**	**Navy Blue**	**Baby Blue**	**Dark Green**
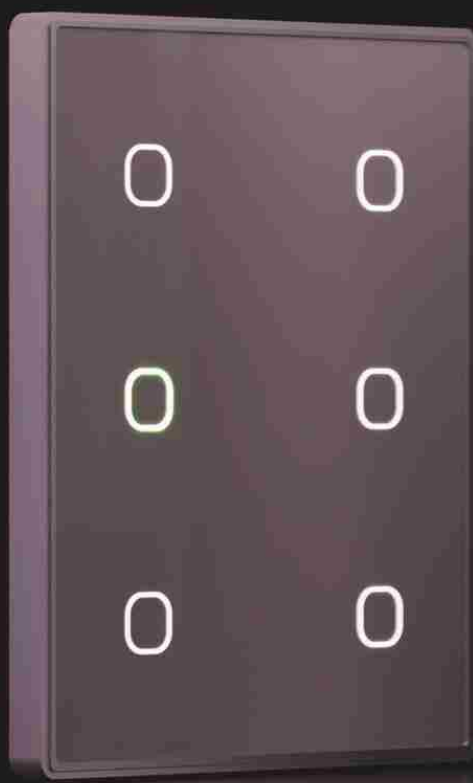
ACTUATORS

Where the magic is done A complete range of the most powerful actuators in the market. In the following pages, you will discover the non-visible part of Sentido installations. Actuators for HVAC, lighting, shutter control, multifunctional, all-in-one solutions, multimedia, energy monitoring...

SE-SR1216-L

12CH 16A High Power Switch Actuator
- 16A per channel, magnetic latching relay
- 12 channels lighting control or 6 Channels curtain control is selectable.
- With scene and sequence controller.
- DIN-Rail Mount .

SE-SR1216-N

12CH 16A High Power Switch Actuator
- 16A per channel relay
- 12 channels lighting control
- With scene and sequence controller.
- DIN-Rail Mount

SE-HVAC-02

2CH Air Conditioning Control Module
- Control centralized HVAC systems .
- Controls one fan 4-pipe or Controls two fan 2-pipe
- Supports high, medium, and low fan speeds.
- Supports cooling, heating, and dehumidification.
- Supports DC 10-0V fan speed control
- Support 4 digital temperature sensors
- DIN-Rail Mount .

SE-EIP-GW

eConnect Gateway
- Bidirectional data exchange between buspro Supports local control, remote control (local control by default) , local network Communication: Buspro, IP network.
- DIN-Rail Mount

SE-LOGIC

Logic Automation Module
- 16A per channel, Provides centralised control over a range of targets. The module is capable of accepting 12 logic types, and has in total 960 logic blocks. The logic conditions enable the input of date and timing information, universal switch states, and external inputs.
- DIN-Rail Mount .

SE-SEC

Security Module
- Enabling the creation of zoned security areas. The module is also able to provide a user with a real time SMS notification if a security device is triggered.
- DIN-Rail Mount .

SE-IRE-04

4CH IR Emitter
- Supports 4 channel and 100 learning IR codes, Detect the device status (on/off) by current, download or learn IR code and control the IR equipment's such as AC, TV, Fan and ... .

SE-IRE-01

1CH IR Emitter
- 200 infrared codes can be stored in it. By using the IR learner (another device) to learn the IR codes from the normal remote, and downloaded into this device. The software can program and use the IR codes to control the IR device, such as , AC ,TV, DVD,

SE-CM8

Cable Manager
- With 8 Bus Terminals , can connect up to 8 devices, hand in hand Wiring to achieve the simple connection method.
- DIN-Rail Mount

SE-24Z

24 Zone Dry Contact Module
- Accepting dry contact inputs , and supports both switching and dimming.
- DIN-Rail Mount .

SE-4Z

4 Zone Dry Contact Module
- Accepting dry contact inputs , and supports both switching and dimming .

HomePlay helps you stay connected to your music through the Sentido On app. Available for both iOS and Android devices, the app provides you with a one stop shop for a truly unified listening experience.

With your favorite online audio streams displayed alongside your entire audio library, a simple swipe of a finger can bring music instantly to a single room, or an entire building. listening experience.

LAN

USB

Bluetooth

Wi-Fi

HOME AUDIO

for Every Room in Your Home.

With the Sentido HomePlay network player, you can stream your favorite tracks to any room in your home effortlessly.
Designed for you and your family, take total control over your audio for a never before heard auditory experience.

## STREAM DIFFERENT SONGS TO EVERY ROOM IN YOUR HOME SIMULTANEOUSLY.

It's easier than ever before to and, play, and manage your music library using the Sentido On app. Able to display everything you connect to HomePlay, the app lets you view your entire music collection, create playlists, play, pause, adjust volume, or skip tracks. The app even lets you choose what room you want to listen to your music in. From a DubStep house party, to Spotify's best classical music while you cook, all the songs and albums you've collected can be played exactly as you intended.

At Sentido we know that everyone has their preferred method of audio storage. That's why we've given HomePlay true multi-platform compatibility.

With Bluetooth and WiFi connectivity, a LAN port, and a USB port HomePlay can directly connect to your audio library. Seamlessly controlled through the Sentido On app, you can stream all of your favorite tracks to any room to create your ideal audioscape.

HDL On App   MZBOX-A50B.30   SPK-FL80

With HomePlay there's always something new to listen to . Just stream music directly from your favorite online sources.

pandora   Spotify   vTuner internet radio   TIDAL

Rhapsody   iHeartRADIO   tunein   qobuz
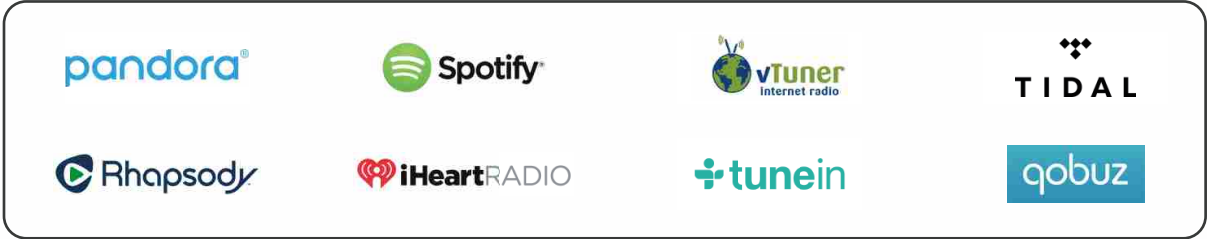
Designed to deliver crystal clear audio to every room in your home, HomePlay brings you a 40 watt amplifier with a dynamic range range of 87 decibels. Whether you are listening to bass thumping music, or using your HomePlay system in conjunction with your home theatre, Hom Play lets you enjoy rich, high quality audio in every room of your home.
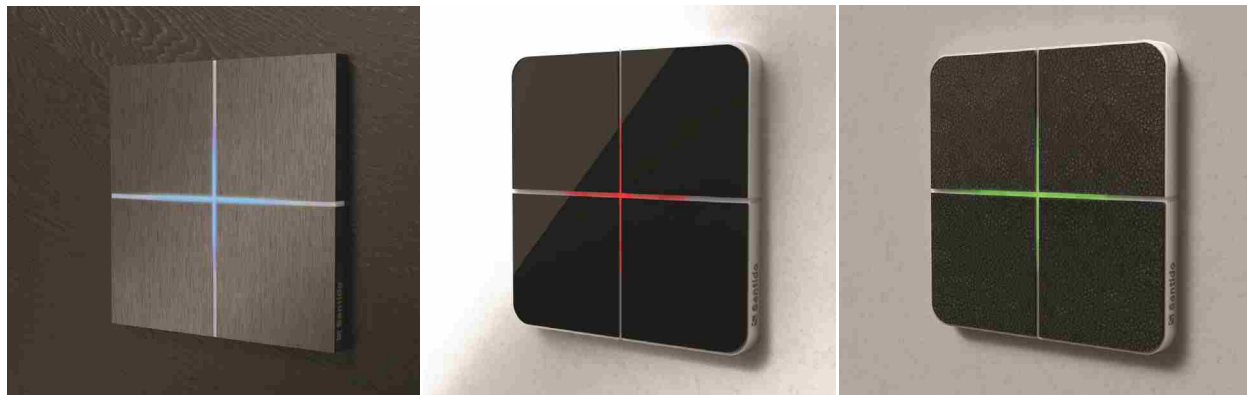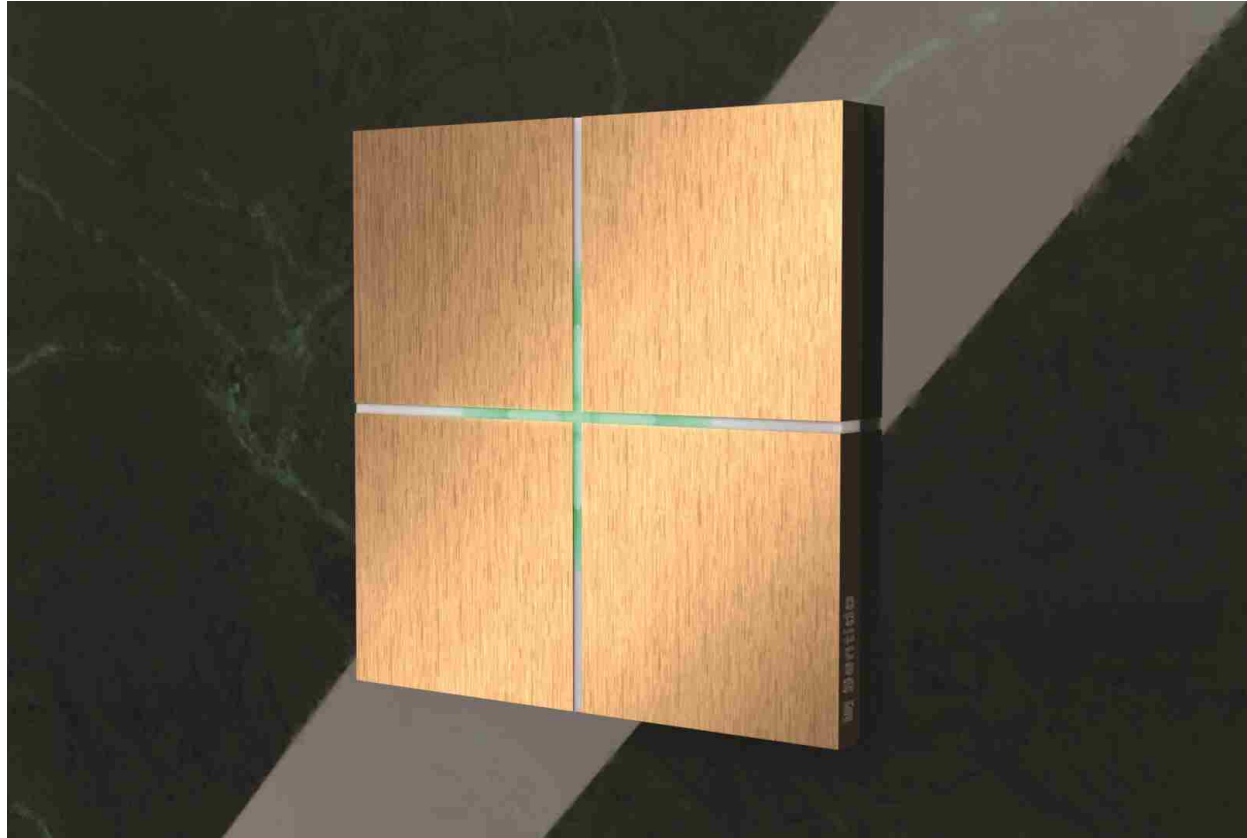
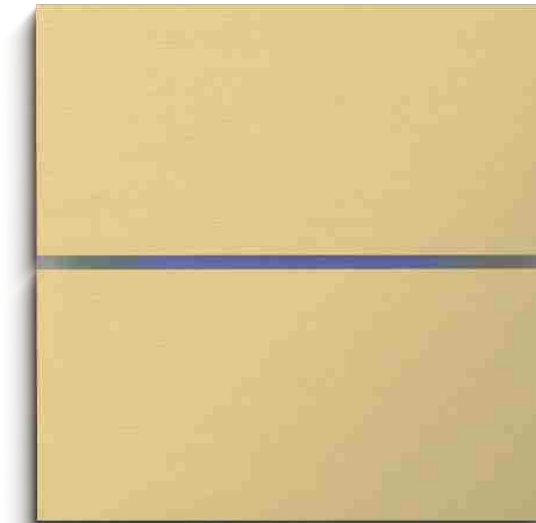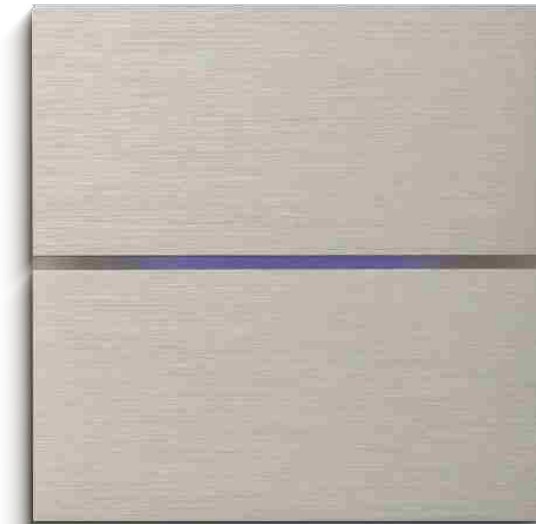Available for: buspro KNX

USB   LAN

KNX PRODUCTS
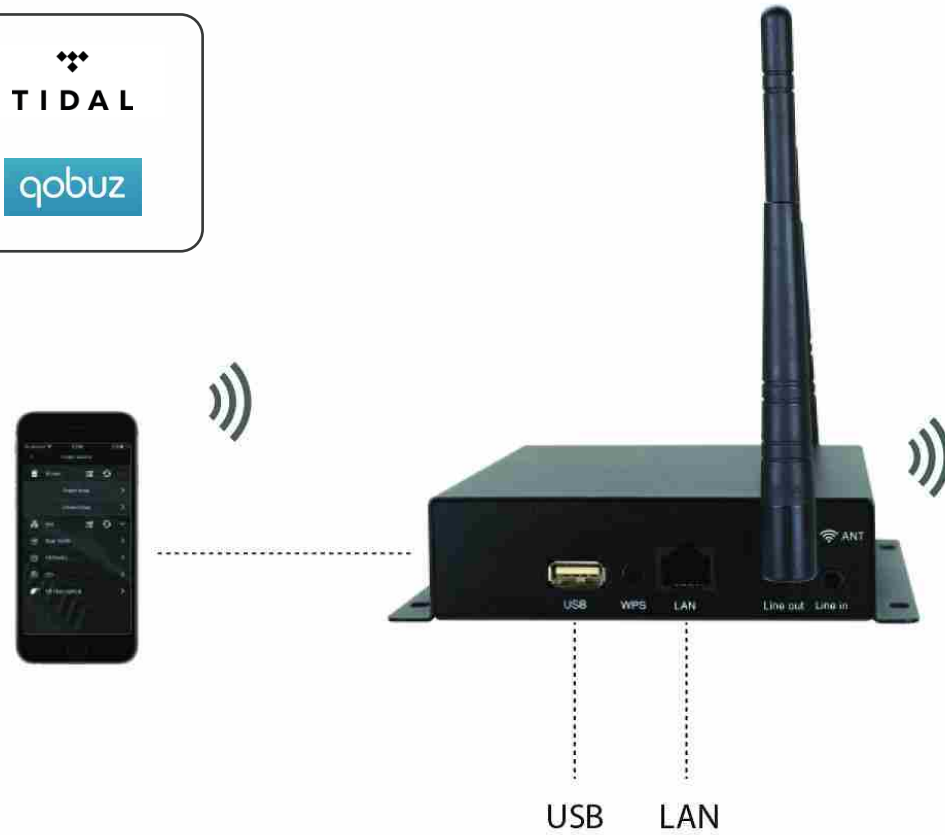
NEXUS
Touch
4-button

The entire surface of Nexus is touch-sensitive, creating an innovative and unique user experience. Control lights, shades and scenes at the slightest touch. The unique multitouch function lets you easily dim the room into the right scene. An internal temperature sensor discretely reports the room temperature.

brushed black	brushed volcanic grey	brushed aluminium	satin white
bronze	brushed nickel	brushed brass	rosé
fer forgé gunmetal	fer forgé grey	fer forgé bronze	fer forgé rosé

NEXUS
Touch
2-button

brushed black	brushed volcanic grey	brushed aluminium	satin white
bronze	brushed nickel	brushed brass	rosé
fer forgé gunmetal	fer forgé grey	fer forgé bronze	fer forgé rosé

SE/K -4TB-01
4 Zone Dry Contact Module

SE/K -IRE-01
Infrared Emitter

KNX

4 Zone Dry Contact Module, includes 4 Dry Contact input channels, coupled with temperature sensor.

Infrared Emitter, Supports 4 channel infrared interfaces, totally can store up to 960 infrared codes, The control modes are ON/OFF control, Temperature control, Cooling/Heating, Fan speed control, Swing control et, Tv control.

SMART HOME
TOUCH SWITCHES

ZIGBEE TOUCH SWITCHES

Smart Control at Your Fingertips

1-2-3-4 buttons

Touch Control: Elegant glass panel with a responsive touch interface.

Zigbee Connectivity: Works seamlessly with Zigbee hubs for stable and efficient communication.

App & Voice Control: Compatible with Alexa, Google Assistant, and smart home apps for hands-free operation.

Multiple Gangs & Styles: Available in 1-gang, 2-gang, and 3-gang and 4-gang options to fit your needs.

Remote Access: Control lights and appliances from anywhere via your smartphone.

Easy Installation: Fits standard electrical boxes and requires a neutral wire (depending on the model).

Upgrade your home with Zigbee Touch Switches, combining sleek design with intelligent automation. These smart switches offer effortless control of your lighting and appliances, enhancing convenience, efficiency, and style.

Upgrade to Zigbee Touch Switches and experience the future of smart lighting!
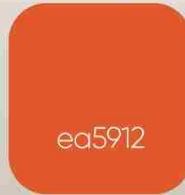
Available for: **zigbee**

SPECIAL COLOR
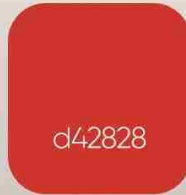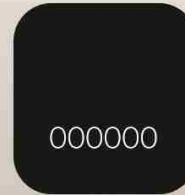
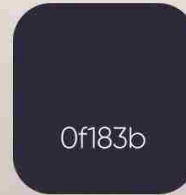Order various colors according to your taste
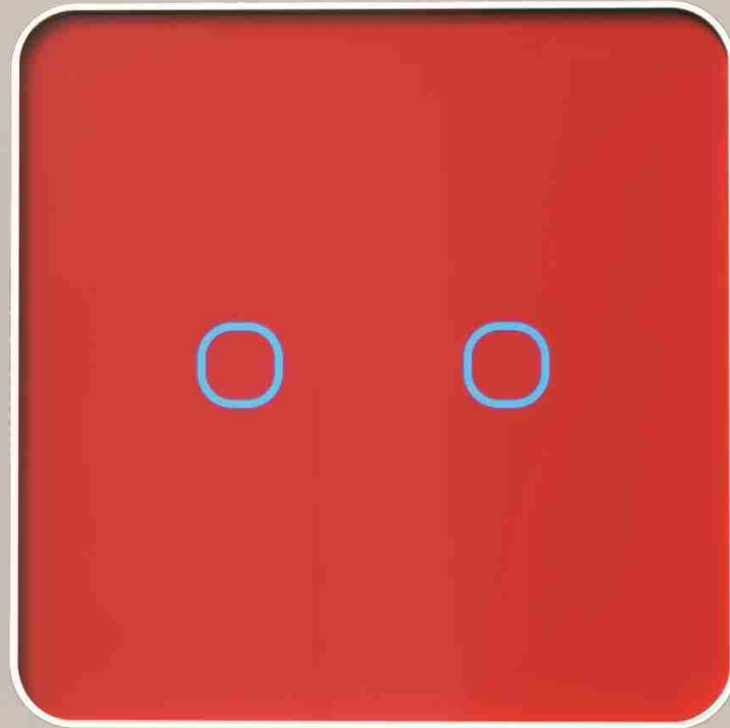
White	Greenery	Orange	Winston Red	Black	Navy Blue	Grey
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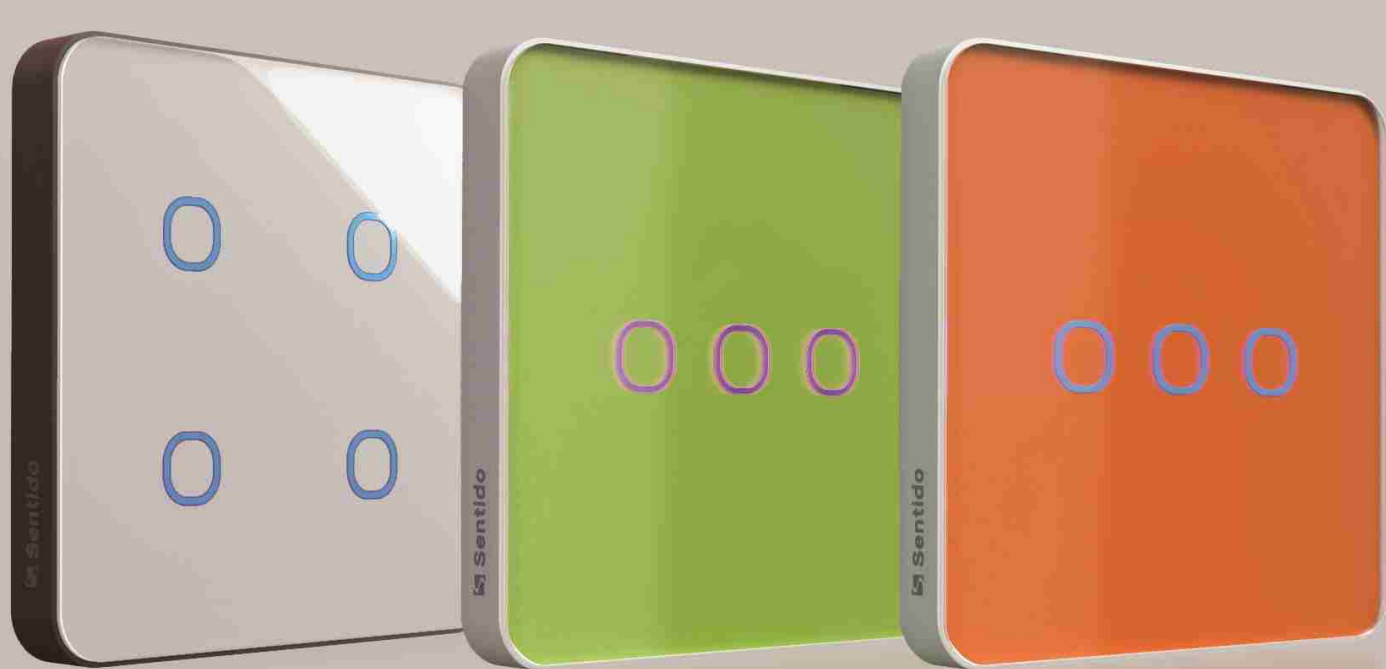
SOFTWARES

iRidi

The more complicated an automation object is (smart homes, yachts, hotels, etc.) the more requirements and demands a customer has. iRidi pro is a tool for installers that allows to:
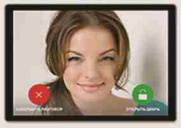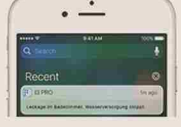realize all demands of a customer; integrate any equipment in a project; create a good-looking control interface.

Voice control

iRidi allows to integrate KNX, AMX, Crestron, Modbus, HDL and other professional systems with voice assistants.
Learn more

Integration with IP-cameras

Video streams of all modern IP-cameras, ONVIF and control of PTZ camera rotation are supported.

Graphs and trends

Numerous capabilities to visualize data.

Remote control

Different ways of remote control:
– with "white" IP-address – VPN or PortForwarding
– with "grey" IP- address – DynDNS + VPN/PortForwarding
– in other cases – iRidium Remote Cloud (soon)

iRidium server is required for remote control.

Intercom

Audio and video streams, as well as opening doors, are supported. Mobotix, Siedle, 2N, TrueIP, BusIP, DoorBird, etc. intercoms are successfully integrated. Push-notifications about a call come to a panel (smart phone) in any part of the world.

iRidi script

Built-in JavaScript and iRidi API allow to create advanced visualization, drivers to integrate third-party equipment, complicated logics of project and server work, graphs and trends. Data are processed by iRidi server.

Notifications

A lot of notifications are available:
- push
- sms
- e-mail
- messengers (Telegram, Viber, Slack)
- phone call (via SIP)

BYOD (Bring Your Own Device)

Do you create solutions for hotels, offices and meeting rooms? – BYOD allows your customers to control a hotel room or a meeting room from their own mobile device with a time limit.
Learn more

Available for:

buspro

KNX

ASHRAE BACnet™

Modbus

INTERFACE TO CONTROL A HOTEL ROOM

Cameras

Entrance   Basement   Garage   Outside

Wake-up Call
SET UP TIME

Room Service
SELECT

12:45
April 1, Saturday

7° Sunny
Humidity: 83%
Wind: 5 m/s

SPA
RESERVE

Meeting room
RESERVE

Back Home   Sound Recording   Take a Picture   Video Recording

Sentido