Simple, safe and invisible.

Rialto Active, a system of integratable solutions for the smart home. For a green and reliable home that fits in with your lifestyle.

\(\text{astrel}^\(\text{el}^\(\text{el}^\





The smart home according to Astrel®: a world of solutions, all allowing integration with one another.



We have been involved in the electronics sector for more than thirty years, and always with a single overriding aim: to make the smart home a practical reality, for everyone. The smart systems and IoT applications we offer are installed and configured quickly and easily, and ready for immediate use.

Astrel technology and devices are entirely designed and made in Italy.

It is our belief that to be genuinely smart, a home must incorporate an ecosystem of devices that can be fully integrated with one another and managed conveniently by way of a single interface, able to communicate with more and more things and systems.

Our eyes are fixed on horizons that continue to expand, so we do not want to be concerned only with solving minor everyday problems. This is why we have come up with Rialto Active as a system capable of managing all components in any dwelling.

The advantages of living in a connected home.

A smart home is a future-proof home. A home allowing the occupant to keep energy usage under control and manage all the various devices remotely, simply by way of an App or a voice command. A home that is safer, greener, more comfortable and technological, and adaptable to your particular lifestyle.

Rialto Active is precisely this: a noninvasive, almost invisible ecosystem of smart functionalities that you can shape around your preferred routine; also, a system that can be integrated seamlessly into any kind of electrical installation, without replacing anything.





Simple to install, configure and use.

Intuitive interface for easy and immediate use.



Requires no changes to the electrical system.

Compatible with any existing installation.



Self-consumption of solar energy.

Integration with 4-noks® Elios4you, the photovoltaic selfconsumption system.



Compatible with things around the home.

Adding our Rialto Active devices, any item in the home can become smart.



Accurate measurement of electrical energy usage.

Controls consumption and pilots load modulation.



Innovative Echoback® function.

Monitors system energy levels, controls effective activation of commands and operation of the system, generating alerts in the event of abnormalities.



Integration with popular voice assistants.

Easily integrated with systems like Amazon Alexa and Google Home.



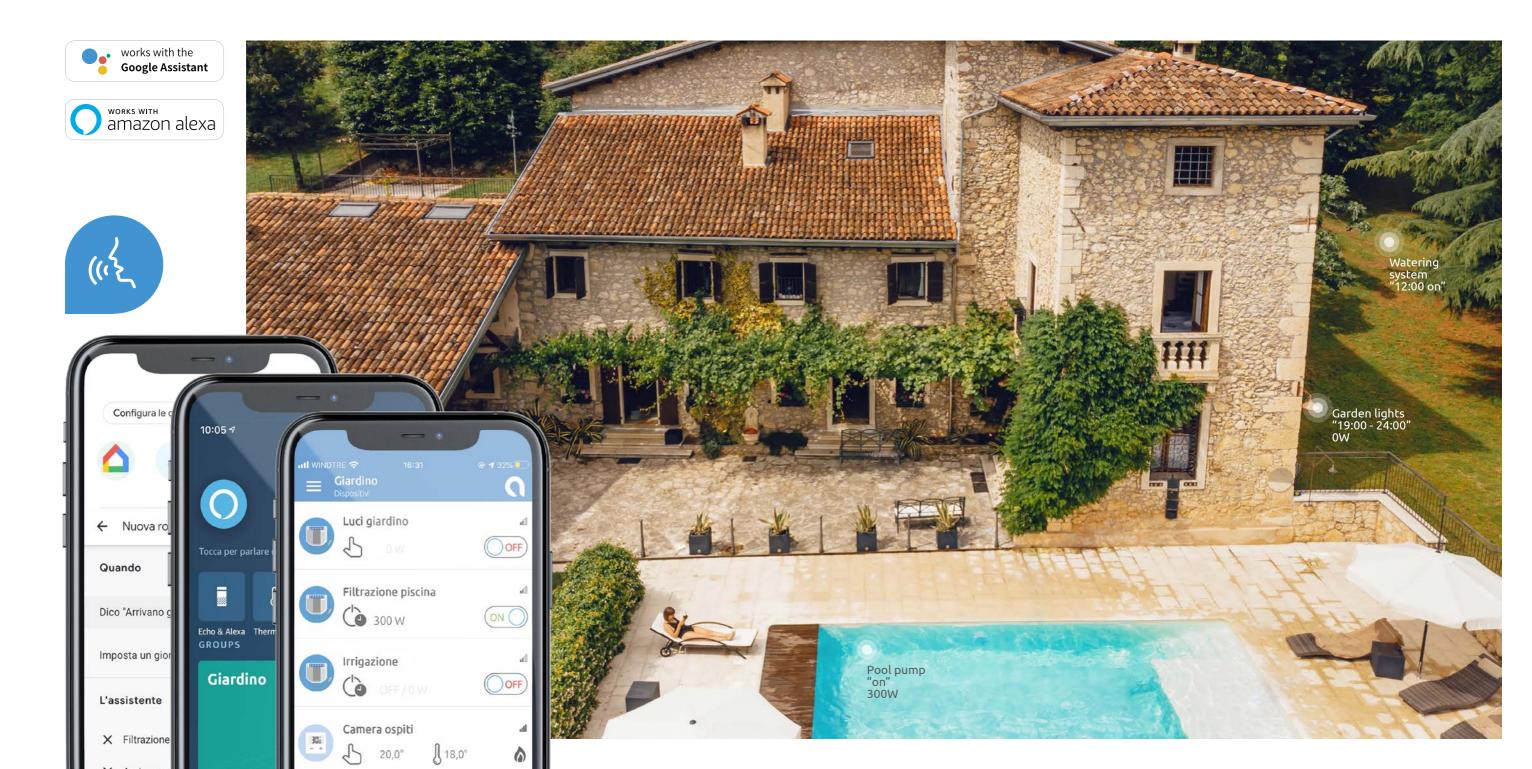
Complete and integrated energy management.

Monitors energy produced and consumed, and storage systems.

Converts the home, not the electrical system.

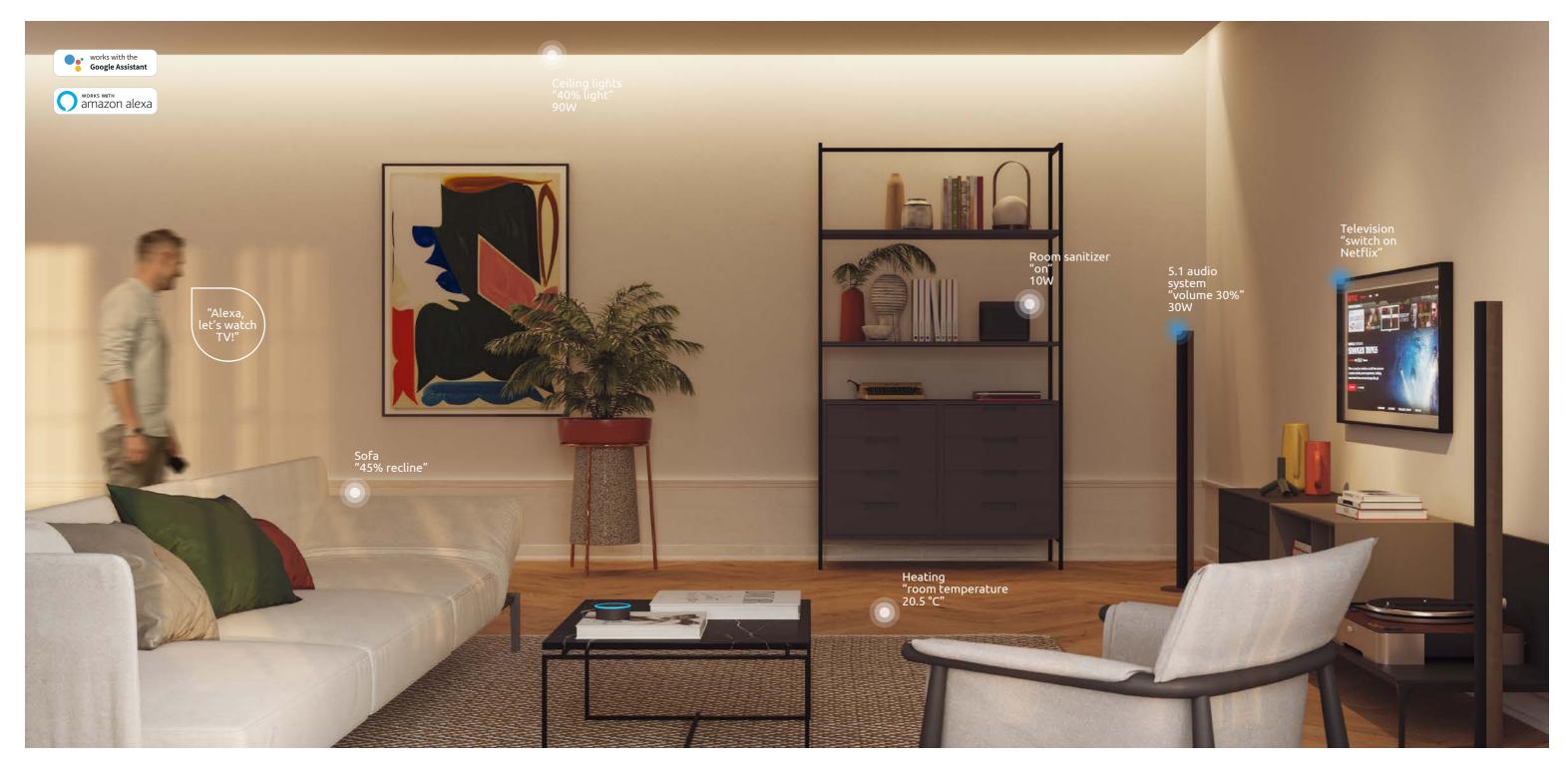
Rialto Active is so smart as to invisible.

Our products are used in conjunction with existing devices to make them smart and provide more ways of controlling them. The effect is to create a wireless network allowing full cooperation between the various systems of the series that are installed. Lights, blinds, curtains, watering... all under the same control.



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Rialto Active — Smart Home System

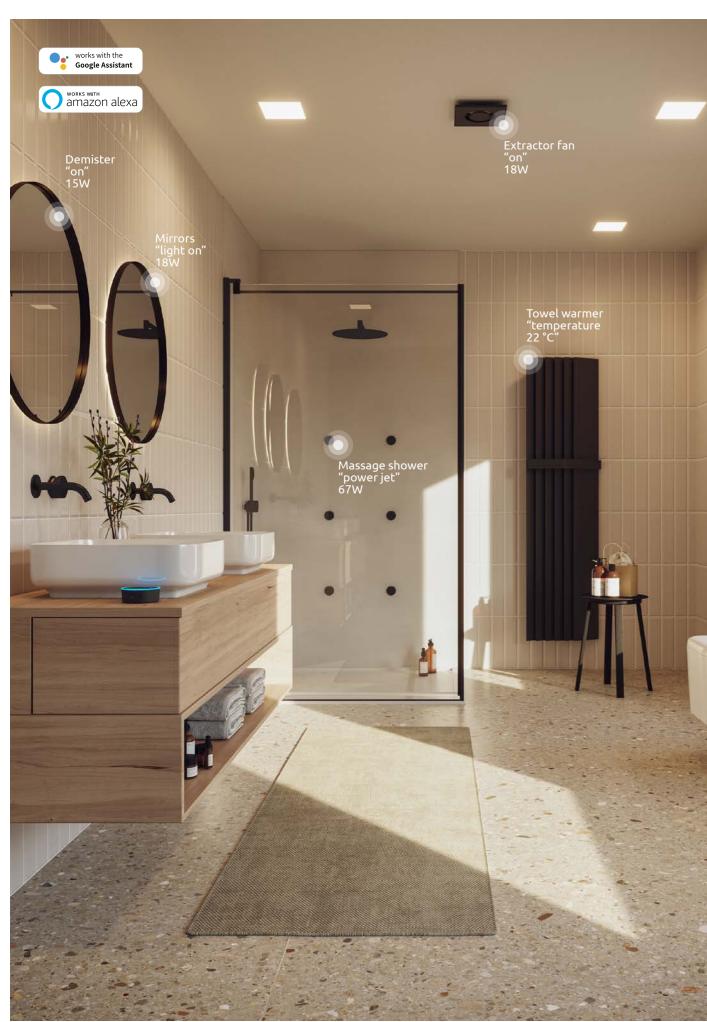


From living room to smart room: the intelligent living room.

The living room is the part of the home made for relaxation and lounging on the sofa, or organizing convivial evenings with friends. The lights, the TV, sound system, air purifier and underfloor heating can all be controlled in a matter of seconds from a single platform and using just one voice command.

This is what a smart home is all about: simplifying everyday activities and improving the quality of life enjoyed by people.





IoT in that most private of places: the bathroom.

With Rialto Active, even the bathroom can be turned into a smart environment.

Using a simple voice command, you can control the extractor fan, lighting, towel warmer, whirlpool tub and massage shower, as well as keeping an eye on the energy they all use.

If the system is integrated with 4-noks® Elios4you, hot water can be produced by self-consuming energy sourced from your own photovoltaic system. In short, free hot water, lower fuel bills, and an environment-friendly home.



A healthier and greener bathroom

With Rialto Active connected to the **4-noks® Elios4you** system, self-consumption can be exploited to keep the bathroom just as you like it, using exclusively renewable energy.

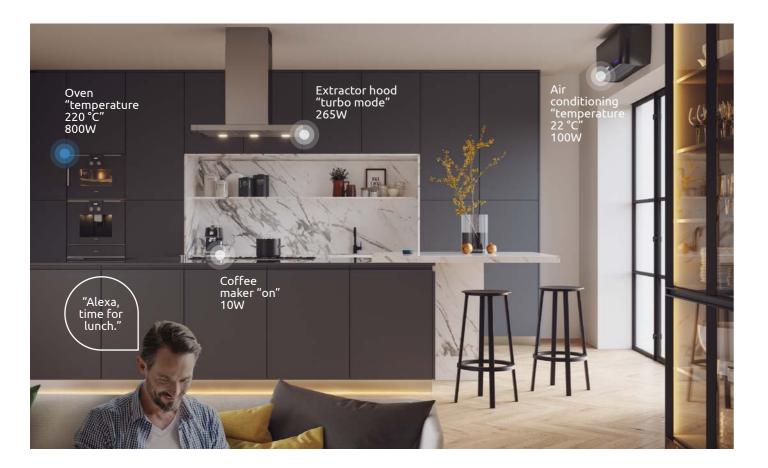


Heating, sanitizing, dehumidifying and ventilation appliances can be operated automatically and at no cost. And if you have an electric water heater, there will be free hot water too!

12 Astrel® Rialto Active — Smart Home System 13

A smart kitchen is a functional kitchen.

The kitchen is the heart of the home, where the family comes together. A place we see as practical, comfortable and inviting. With a simple vocal command, even a complex process can be set in motion automatically.



Do you want to turn on the extractor hood even though your hands are busy? To find the oven hot when you get home from work? The curtains drawn and the shutters down? To have your coffee ready in the morning? Or turn on the music you like while you're cooking? With Rialto Active, all this become easier than ever before.

From day, you can enjoy sweet dreams: the bedroom has become smart.

Those daily routines, morning and evening, are condensed into just a few quick commands. The window shutters roll up and roll down automatically, in coordination with activation of the air conditioning to freshen up the room.



The bed is motorized to guarantee total comfort and the lights are dimmable, so that the level of brightness in the room can be modulated, and blinds or curtains can be opened and closed whenever it suits, even if you're out and about.

Our Rialto Active system adapts to the lifestyle of people, helps with management of the home in real time and remotely, reduces the environmental impact of energy usage and increases the potential of a technology available to everyone.

The Rialto Active system is also ideal for offices, B&Bs and other small businesses or agencies. A smart system can make the workplace a safer and more functional environment, where energy consumption is monitored continuously, fully optimized and geared to the nature of the activity and the number of people involved.





Did it really close? No more worries with Echoback[®]. With Rialto Active you can rest assured. Our system includes a genuinely unique feature: Echoback®. This special functionality tells you whether or not a command given from the App has in fact been carried out.



No end of applications

Conversion



Traditional thermostat

Converted to smart by replacing with a Rialto thermostat, with no change to the system



Timer thermostat

Converted to smart by replacing with a Rialto timer thermostat, with no change to the system



Radiator

Converted to smart by adding a wireless thermostatic valve



Towel warmer

Converted to smart by adding a Rialto wireless relay



Fan coil unit

Converted to smart with a Rialto Fandree plus thermostat



Motorized roller blind

Converted to smart with an Ekko Shutter module, retaining the wall mounted pushbutton controls

Conversion



Motorized shutter

Converted to smart with an Ekko Shutter module, retaining the wall mounted pushbutton controls



Lighting

The lights and the brightness level can be managed in smart mode using Ekko wireless modules, retaining the existing switch or other control device



Electric water heater

Converted to smart with a wireless module for programming on/off times and with operation using solar energy



Safety solenoid valve

In the event of leaks or freezing temperatures, increased safety is assured by a smart and remote control that shuts off the water supply



Power socket

Converted to smart by connecting to Ekko module housed internally of the socket itself



Motorized awning

Converted to smart with a wireless Ekko Shutter module, retaining the wall mounted pushbutton controls There are two possible approaches to adopt when turning a home into a smart home: conversion or integration. In the former instance, modules and devices can be added to things to make them

Rialto Active — Smart Home System

smart. In the latter, on the other hand, by building Astrel technology natively into the system or the device, this will already be integrated with Rialto Active when deployed.

Conversion



Pool pump

Filtration becomes programmable in smart mode, ensuring the pool stays permanently clean and at lower cost



Integration



Using Astrel® technology, your air sanitizer is turned into a smart device and integrated into the Rialto Active system

Room sanitizer



Watering

Converted to smart using wireless Ekko modules that will activate solenoid valves and irrigation pumps to best advantage



Recliner

Using Astrel® technology, your reclining armchair is turned into a smart device and integrated into the Rialto Active system



Electric gate/door lock

Converted to smart installing an Ekko module in parallel with the wall-mounted pushbutton



Motorized bed

Using Astrel® technology, your motorized bed frame is turned into a smart device and integrated into the Rialto Active system



Motorized garage door

Converted to smart installing an Ekko module in parallel with the traditional wall-mounted open/close pushbuttons



Extractor hood

Using Astrel® technology, your kitchen extractor hood is turned into a smart device and integrated into the Rialto Active system



Electric vehicle battery charger

With the Ekko module and the Elios4you system, an electric car can be recharged using solar energy



Monitoring of leaks and high temperatures

Using easy-to-install smart strip sensors, the building can be monitored round the clock for damp and abnormal temperatures



Fans

Using Astrel® technology, your forced air ventilation or extraction system is activated in smart mode and integrated into the Rialto Active system



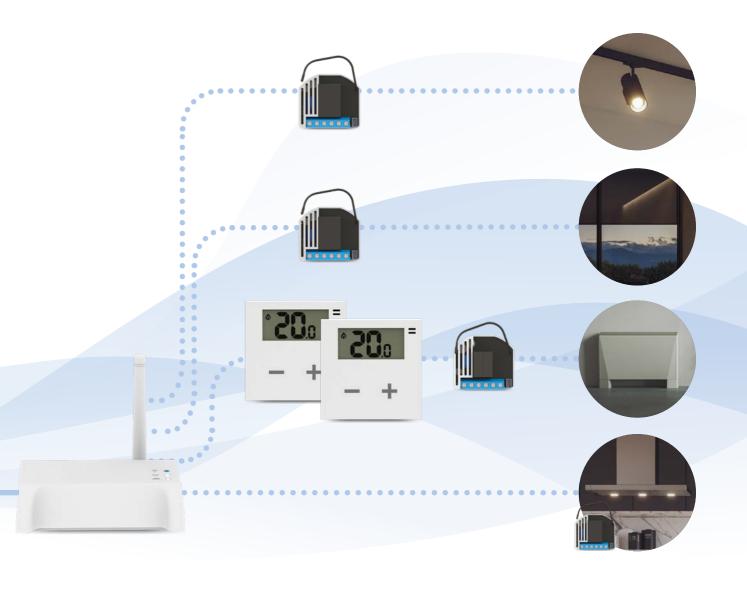
Міггог

Using Astrel® technology, your mirror with built-in light and demist is turned into a smart device and integrated into the Rialto Active system

Easy to install, even easier to configure.







Just a few simple but powerful connections finally make living in a smart home a reality. The green home that adapts to your lifestyle.

With the Rialto Active system, installation and configuration procedures are simplicity itself. Any dwelling can be turned into a true smart home in a matter of minutes, and anyone can do it.

Simply connect the Whitebox hub to the router installed in the home, then with the aid of the Rialto Active App or your favourite voice assistant, you can start living straight away in the smart home of the future and organize everything just how you want it.

Controlling the lights, room temperature, watering system, household electrical appliances... Now it will all be possible with a tap of the finger or a voice command.

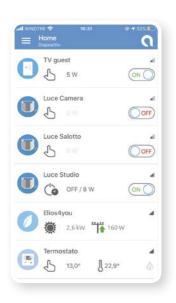
By creating routines, you can make the most of IoT technology and optimize your energy usage: operation of the awning is piloted by the ambient light sensor, the shutters are lowered to limit the impact of direct sunlight, and the thermostat-controlled air-conditioning system runs on energy provided by your solar panels.



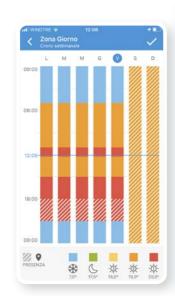
20 Astrel®

Rialto Active — Smart Home System 21

An App to control everything.



Total control over all smart components of the system, in real time.



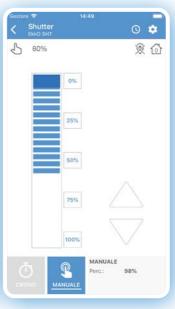
Seven day program selectable independently for each single device.



Immediate check on effective outcome of commands, with alert if not successful.

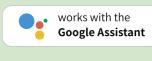


Real time display of energy consumption with meter reading in kWh and €.



Opening and closing movement of motorized shutters, total or partial, programmable with timer.

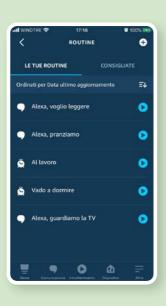
With the App, all the rooms and all the things present in the smart home can be managed easily and with a few finger-taps. The clean and uncomplicated interface, the creation of customized programs, the tracking of energy usage and the speed of response even when controlled remotely... management of the home could not be simpler.



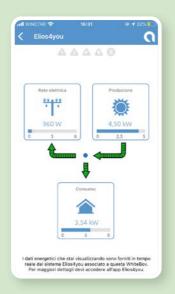




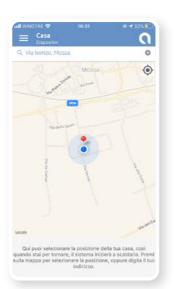
In the case of integration with 4-noks® Elios4you, programs can be organized on the basis of energy put in or drawn from the electricity grid.



Creation of preset dedicated programs based on habits, routines and everyday activities.



Real time display of PV energy production, energy usage and connection to grid.



Programs can be based on geolocation, so as to optimize energy consumption.



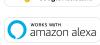
Check on heating/ cooling temperature and programming data.



Control of heating system: on/ off status, set temperature and measured temperature.



Rialto hub



Technical data

Code	ZR-GW-WB-RI
General specifications	Ethernet-ZigBee gateway for connection to router
Power supply	5 V= 0.4 A, 2 W power adapter, supplied with product
Connections	1 x RJ45 Ethernet port; 1 x micro USB for power supply
Max n° Rialto devices supported	32
Status display	3 x operation diagnostic Led
Router compatibility requirements	DHCP server function enabled at router UDP broadcast function enabled at router Active Internet connection
Radio specifications	2405 MHz to 2480 MHz
ZigBee profiles	Home Automation Profile
Radio range	Up to 20 m indoors

Control unit of the Rialto system, configurable via App, allowing the user to manage multiple ZigBee devices, save settings and store operating data.

Plus points

- Immediate configuration on local network by virtue of ethernet connection to router
- ZigBee network coordinator with external antenna for high radio range
- Data of connected devices saved to log

App-controlled functions

- Multibox: facility of controlling multiple hubs from the same App/Account
- Compatible with Amazon Alexa™ and Google Home™ voice assistants
- Compatible with 4-noks® Elios4you

Ekko 1RD

Flush-mounting module with dry contact relay



Technical data

Code	ZR-F-1RD-RI (dry contact relay) 110 - 240 Vac ±10%, 50/60 Hz, (24-30 Vdc)		
Power supply			
Rated current of a.c./d.c. load (resistive load)*	1 x 10 A		
Rated power of load (resistive)	2400 W (240 Vac), 1100 W (110 Vac), 240 W (24Vdc)		
Radio range	Up to 20 m indoors		
Power consumption:	0.4 W		
Degree of protection	IP20		
Radio specifications	2405 MHz to 2480 MHz		
ZigBee profiles	Home Automation Profile (HA1.2)		
Rialto network radio repeater function	Yes		

^{*)} In the case of a non-resistive load, be sure to verify $\cos \phi$ value and, if necessary, apply a load of less than the nominal rated value.

Flush-mounting wireless module with 1 voltage-free contact, coupled with existing manual controls (conventional or pushbutton switches) to enable smart management of any device with digital input or electrical loads (on/off).

Plus points

- Compact dimensions: suitable for all back boxes
- Compatible with all types of switches/ pushbuttons, regardless of brand
- Flexibility of application thanks to dry contact relay

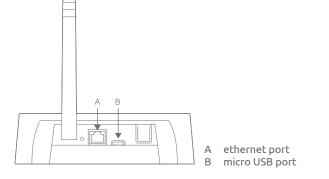
Typical applications

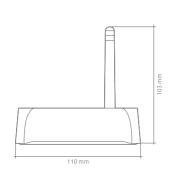
• Remote boiler contact, operation of contactors, contact for digital inputs, integration with third party systems

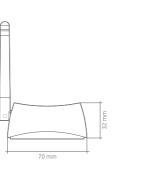
App-controlled functions

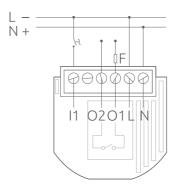
- Manual or programmed on/off control
- Programming with photovoltaic self-consumption function (requires installation of 4-noks® Elios4you)
- Programming with geo function
- Configuration of bistable or monostable output (1s - 15min)

Technical drawings



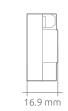






- N Neutral (+Vdc)
- L Phase (Ø V)
- O1 Electrical load power input
- O2 Electrical load power output I1 Input n° 1 connected to wall switch
- F Fuse 10 AT/250 V





Ekko 1R / 2R

Flush mounting module with single/dual relay



Flush mounting module with 1 or 2 x wireless relay, coupled with existing manual controls (conventional or pushbutton switches) to enable smart management of electrical loads (on/off).

Technical data

Code	ZR-F-1R-RI (1 relay version) - ZR-F-2R-RI (2 relay version)
Supply voltage	110 - 240 Vac ±10%, 50/60 Hz, (24-30 Vdc)
Rated current of a.c./d.c. load (resistive load)*	ZR-F-1R-RI (1 relay version): 1 x 10 A ZR-F-2R-RI (2 relay version): 2 x 4 A
Rated power of load (resistive) *	ZR-F-1R-RI (1 relay version): 2300 W (240 Vac), 1100 W (110 Vac), 240 W (24Vdc) ZR-F-2R-RI (2 relay version): 2 x 940 W (240 Vac), 2 x 440 W (110 Vac), 2 x 96 W (24Vdc)
Power consumption	0.4 W
Radio specifications	2405 MHz to 2480 MHz
ZigBee profiles	Home Automation Profile (HA1.2)
Radio range	Up to 20 m indoors
Rialto network radio repeater function	Yes

^{*)} In the case of a non-resistive load, be sure to verify cos φ value and, if necessary, apply a load of less than the nominal rated value.

Plus points

- compact dimensions: suitable for all back boxes
- compatible with all types of switches/ pushbuttons, regardless of brand
- built-in precision energy meter

App-controlled functions

- Various control options including manual and/or timer and/or voice assistant
- Display of instantaneous or historical energy consumption
- Energy meter with usage calculation, resettable
- Compatible with Astrel® Echoback® function

Ekko Shutter

Flush-mounting module for motorized shutters



Technical data

ZR-F-SHT-RI		
110 - 240 Vac ±10%, 50/60 Hz, (24-30 Vdc)		
2 X 4 A(240 Vac)		
2 X 940W (240 Vac)		
0.4 W		
2405 MHz to 2480 MHz		
Home Automation Profile (HA1.2)		
Up to 20 m indoors		
Yes		

^{*)} In the case of a non-resistive load, be sure to verify $\cos \phi$ value and, if necessary, apply a load of less than the nominal rated value.

Flush mounting module for smart management of motorized shutters/blinds, in conjunction with existing interlocked switch or pushbutton controls.

Plus points

- 2 x 4 A / 230 V relay (resistive load)
- · compatible with all back boxes
- Energy meter with usage calculation, resettable
- Compatible with Astrel® Echoback® function

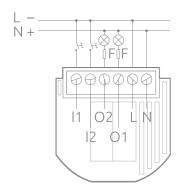
App-controlled functions

 Remote control of tubular electric motors with the two directions of rotation (Up/Down) powered separately

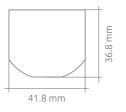
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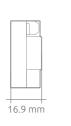
- Shutters
- Folding arm awnings
- Roller blinds
- Projection screens

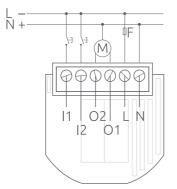
Technical drawings



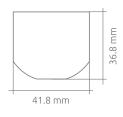
- N Neutral (+Vdc)
- L Phase (Ø V)
- O1 Output connected to electrical load n° 1
- O2 Output connected to electrical load n° 2 (2R version only)
- 12 Input connected to wall switch n° 2 (2R version only)
- I1 Input connected to wall switch n° 1
- F Fuse 4 AT/250V (2R version) 10 AT / 250V (1R version)

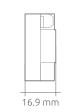






- N Neutral (+Vdc)
- L Phase (Ø V)
- O1 UP motor output
- O2 DOWN motor output
- I1 UP pushbutton input
- 12 DOWN pushbutton input
- F Fuse 4 AT/250 V





Astrel® Rialto Active — Smart Home System

Ekko Dimmer

Flush-mounting dimmer



Technical data

Code	ZR-F-DIM-RI
Supply voltage	110 - 240 Vac ±10%, 50/60 Hz, (24-30 Vdc)
Rated current of a.c./d.c. load (resistive load)*	0.6 A/240 Vac, 0.85 A/30 Vdc
Rated power of load (resistive)	140 W (240 Vac), 20 W (24Vdc)
Power consumption	0.4 W
Radio specifications	2405 MHz to 2480 MHz
ZigBee profiles	Home Automation Profile (HA1.2)
Radio range	Up to 20 m indoors
Rialto network radio repeater function	Yes

Wireless flush mounting module used to control lighting with dimmable lamps, allowing smart management of one or two manual pushbuttons.

Plus points

- Rated power 140 W / 230V max
- Compatible with dimmable incandescent, halogen and Led lamps
- Retains management using manual pushbutton control
- Suitable for all back boxes

App-controlled functions

- Manual or automatic remote control
- Operation with voice commands using Amazon Alexa™ and Google Assistant™
- Daily and weekly programming via App, with facility of setting different brightness levels
- Display of energy consumption (instantaneous and historical)

Fandree

Technical data

Module for fan coil units 3 speeds and 0-10V



Code	ZR-FAN.D-RI
Supply voltage	110 - 240 Vac ±10%, 50/60 Hz
Outputs	3 x speed relay 1 x valve logic relay 1 x 0-10V output
Maximum rated current of a.c./d.c. load	4 x 5A @ 240 Vac / 4 x 5A @ 30 Vdc
Rated power of load (resistive or inductive)	1385 VA @ 230 Vac power factor 0.4 min / 150 W @ 30 Vdc
Inputs	1 x external NTC probe input 1 x Aux input
Physical interface	1 x Service button 1 x Indicator Led
Power consumption	0.8 W
Radio specifications	2405 MHz to 2480 MHz
ZigBee profiles	Zigbee HA 1.2
Radio range	Up to 20 m indoors
Wireless repeater	Yes

Wireless module enabling smart management of fan coil units with no changes made to the existing system. Installation of a Rialto thermostat is required.

Plus points

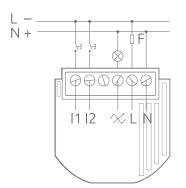
- Provides smart management of traditional fan coil units*
- Control of multiple fan coil units with single thermostat
- Compatible with fan coil units having 3 speeds or 0-10V input
- Auxiliary input

*requires pairing with a Rialto thermostat to enable programming

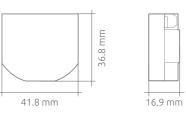
App-controlled functions*

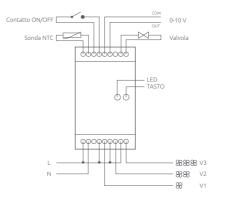
- Remote control
- Seven-day programming of temperature and speed
- Logical pairing of one or more fan coil modules

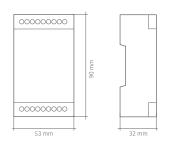
Technical drawings



- N Neutral (+Vdc)
- Phase (Ø V)
- Output connected to electrical device
- 12 Wall switch n° 2
- I1 Wall switch n° 1
- F Fuse 630 mA/250 V







Smart Plug

Wireless passthrough socket



Smart Switch/ Relay

Wall-mounting wireless module with dry/normal relay contact



The Rialto Smart Plug is a multifunction, compact and easy to use device that enables users to monitor and control household electrical appliances in their homes from any location anywhere. Thanks to the facility of seven-day programming, energy can be saved while people are out at work, or sleeping. In addition, users can easily check on energy consumption or switch the connected device on and off.

Rialto wall-mounted Smart Relay/Switch devices are equipped respectively with a voltage-free/live output contact and used to control a compatibly configured electrical load/appliance.

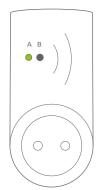
Technical data

Code	ZR-PLUG-EU-RI
General specifications	ZigBee wireless pass-through socket, Schuko standard with built-in energy meter
Power supply	90/230Vac; 1W; 50/60 Hz
Measurements	Power consumption [kWh]; active power [W]
Control relay	Contacts 230Vac; max 13A (resistive load
Radio specifications	2.4 GHz
ZigBee profiles	Zigbee HA 1.2
Radio range	Up to 20 m indoors
Zigbee network repeater function	Yes

Technical data

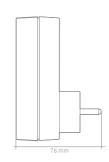
Code	ZR-RELAY-RI (voltage free contact) ZR-SWITCH-RI (live contact)
General specifications	ZigBee wireless SPST switch, with built-in energy meter*
Power supply	90/230Vac; 1W; 50/60 Hz
Measurements	Power consumption [kWh]*; active power [W]*
Control relay	Contacts 230Vac; max 13A (resistive load)
Radio specifications	2.4 GHz
ZigBee profiles	Zigbee HA 1.2
Radio range	Up to 20 m indoors
Zigbee network repeater function	Yes
*(ZR-SWITCH-RI only)	

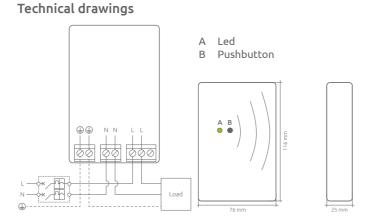
Technical drawings



A Led B Pushbutton







Termostato

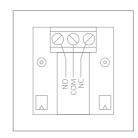
Battery-powered wireless thermostat

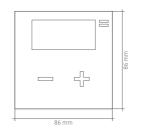


Technical data

Code	ZED-TTR2-RI
General specifications	Battery-powered wireless thermostat with display and touch technology
Power supply	Alkaline battery (2x) AA 1.5V Battery life: >2 years
Control relay	NC/COM/NO contacts 250V 5A Cos(Φ)=1 resistive load
Temperature	Setting range: +7 – 50 °C Resolution: 0.1 °C, Accuracy: ±0.5 °C
Radio specifications	2405 MHz to 2480 MHz
ZigBee profiles	Zigbee HA 1.2
Radio range	Up to 20 m indoors
Wireless repeater	No

Technical drawings





Battery-powered wireless thermostat with dry contact relay and manual controls, allowing lockout of keypad (from App) and summer/winter operating mode.

Plus points

- Battery powered
- NC-C-NO dry contact relay
- Wall mounting
- Summer/winter function
- Keypad lockout function
- Master function allowing activation of 1 or more connected devices (relays and/or thermostatic valves)

App-controlled functions

- Manual control or seven-day programming
- Programming based on geolocation
- Programming with self-consumption function (requires installation of 4-noks® Elios4you)
- Temperature and usage graph (for energy consumption analysis)



Danfoss Ally™

The Zigbee radiator thermostat

The Zigbee-certified
Danfoss Ally™
thermostat for radiators
is completely integrated
with the Rialto Active
system and easily
managed. Installation
requires a mere
30 seconds!

It can be programmed independently or manually using the hand wheel, button and built-in LCD display, or interlocked to a Rialto thermostat (slave configuration).

code: ZED-DNF-RI

The thermostat is powered by batteries which, thanks to lowpower Zigbee technology, will last up to two years.

Various adaptors are available on the market to fit thermostatic valves in widespread use.



Energy Meter 1~

Single phase Energy Meter



Technical data

Codes	ZR-HM.W- RI (wall mounted)
	ZR-HM.D-RI (DIN rail mounted)
Power supply	90/230Vac 50/60 Hz; 1W
Max measurable power	15 kW
Reading mode	Split core Current Transformer (CT - included)
Active power	[W]
Active energy	[kWh]
Radio specifications	2.4 GHz, ZigBee HA 1.2
Rialto network radio	Yes
repeater function	

Wireless power and energy meter for single-phase systems/loads, featuring ease of installation thanks to the split core current transformer utilized.

Plus points

- wireless monitoring of energy usage by way of App
- simple installation with no disruption of system
- split core current transformer (CT)
- power measurement up to 15kW

App-controlled functions

- instantaneous power consumption display
- usage log display
- resettable energy meter providing energy cost estimate expressed in €

Energy Meter 3~

DIN rail mounted threephase energy meter

Technical data trifase

Code

Power supply

Reading mode

Measurements

ZigBee profiles

Wireless repeater

Radio range

Radio specifications

Max current per phase

Current transformer (CT)

Antenna



ZR-HM3-100-RI

100 A max

energy [Wh]

Zigbee HA 1.2

Yes

Up to 20 m indoors

230 Vac 1.5 W 50/60 Hz

Internal diameter Ø15 mm

2405 MHz to 2480 MHz

external with SMA-RP connector

3 x split core Current Transformer (CT - included)

Bidirectional active power [W]; Bidirectional

Plus points

 wireless monitoring of energy usage by way of App

Wireless power and energy meter for

of installation thanks to the split core

current transformers utilized.

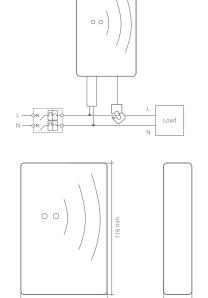
three-phase systems/loads, featuring ease

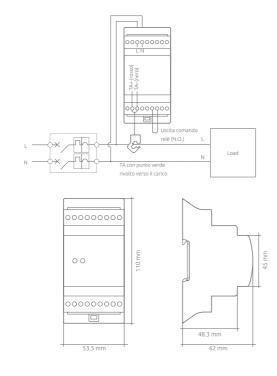
- simple installation with no disruption of system
- split core current transformer (CT)
- power measurement up to 100A per phase

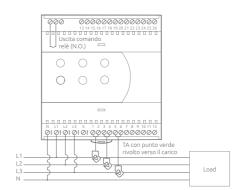
App-controlled functions

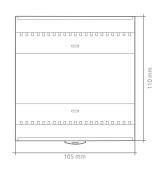
- instantaneous power consumption display
- usage log display
- resettable energy meter providing energy cost estimate expressed in €

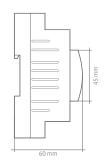
Technical drawings











4-noks® Elios4you

Photovoltaic monitoring and self-consumption



Elios4you and Elios4you Smart are two monitoring and selfconsumption devices for photovoltaic systems connected to single phase consumers with 12 kW max grid connection.

Technical data

General specifications	Control system for single-phase photovoltaic systems with Wi-Fi connection and App for Android/ iOS
Power supply	230 Vac (±10%) 50/60 Hz 2 W
Radio specifications	Wi-Fi 802.11b/g/n
Memory	Data log up to two months, in the event of no connection to tablet, with sampling every 15 min
Status displays	8 x Led
Current measurement	With split core CT (internal Ø 15 mm max)
Power measurement	12kW max
Antenna	External, SMA RP screw connector (data transmission via Wi-Fi)
Outputs	Relay output (max 10 A @ 230 Vac) Control output 0-10 Vdc
Inputs	2 x voltage-free alarm contact (NO)

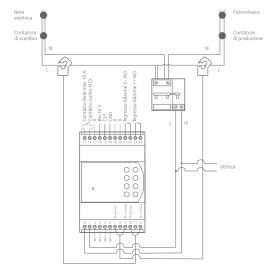
NOTE: 4-noks Elios4you is also available in three-phase version for systems up to 100kW.

Plus points

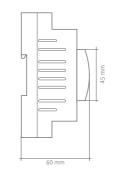
- suitable for all types of inverter
- for single-phase PV systems up to 12kW
- Wi-Fi connection with router
- internal data log memory (2 months)
- compatible with Rialto Active system for optimization of energy usage

App-controlled functions

- display of energy production/usage/ connection to grid
- data log available on cloud portal (optional)







Notes		

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Living the future.

