

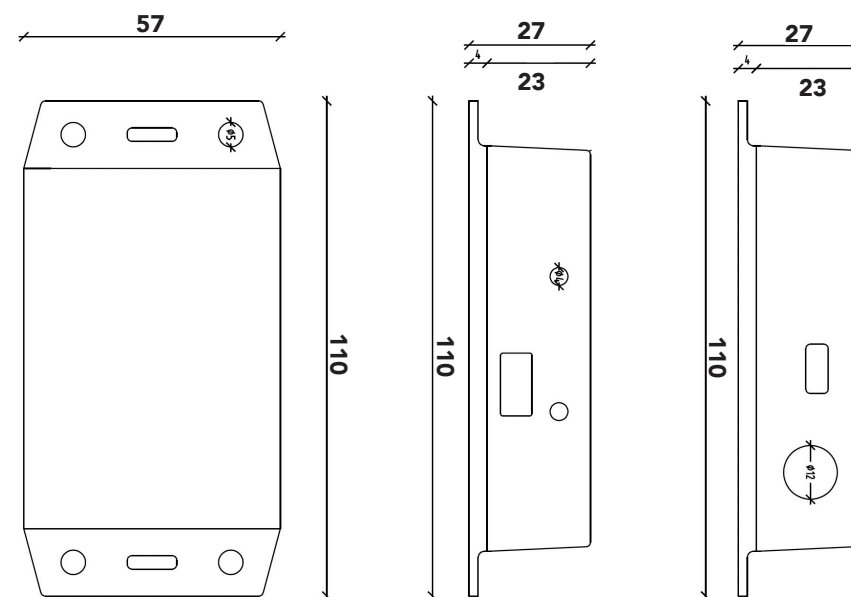
S4i

NANO IB

Perfect for **new** or **retrofit** installations
Simple to install and commission
Compact Interface board for advanced lighting, smart city, smart home, and renewable energy applications.
Pre-built functions ready for immediate use.
SDK for customisation, enabling tailored integrations.
Supports multiple protocols: currently RS485 and DALI.
Future-ready: DMX, KNX, IR, RS232, and CAN Bus support planned.
Wireless connectivity: BLE 5.0 (Casambi), Thread, Wi-Fi HaLow, LTE-M, NB-IoT (future).



Dimensions



Applications

Architectural Lighting: Control with Casambi and DALI; future support for DMX/KNX.

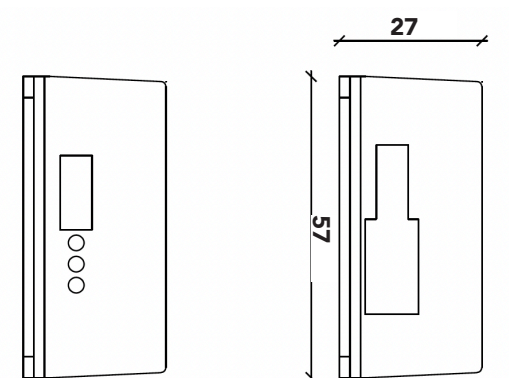
Smart City Solutions: Ideal for street lighting, parks, and public infrastructure.

Smart Building: Centralised lighting, HVAC, and energy optimisation; scalable to multi-site projects.

Smart Home: Works with mainstream hubs for unified control and automation.

Renewable Energy: Integrates with solar and battery systems for energy monitoring.

Industrial Automation: Rugged design with RS485 and sensor support for harsh environments.



(DIN Rail Mount option available)

Technical Specifications

Wireless Protocols	BLE 5.0 (Casambi), Thread, Wi-Fi HaLow, LTE-M, NB-IoT (future)
Wired Protocols	RS485, DALI, UART, I2C Future support: DMX, KNX, IR, RS232, CAN Bus, GPIO, Wiegand protocol for access control
Interfaces	1x USB-C, 1x 4-pin Phoenix connector, 3x Grove connectors (COM, Wireless, Sensor)
Input Voltage	5V - 24V DC via Phoenix connector or 5V via USB-C
Power Consumption	Typical: 2W; Max: 3W
Dimensions	110mm x 55mm x 27.5mm
Operating Temp	-20°C to +70°C
Antenna Options (Extendable with up to 30m SMA extension)	2db Standard Official 2.4G BLE Antenna 2db Puck-Shape IP67 outdoor 2.4G BLE Antenna
Enclosure Options	No Enclosures Standard Enclosures IP65-Rated Economic Enclosure IP67-Rated Compact Enclosures (Various mounting options available, Solar Panel Option) IP67-Rated Large Enclosures
Pre-Built Functions	Scene control, dimming, automation, colour sensing, energy monitoring
Customisation	SDK available for custom protocols and integrations
Warranty	3 years (extended available)

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A compact interface board designed for advanced lighting control, smart city, smart home, and renewable energy applications. It offers a range of pre-built functions and an SDK for customisation, supporting a variety of wireless and wired protocols. Currently available with RS485 and DALI, future support for various wired protocols & interfaces such as DMX, KNX, IR, RS232, and CAN Bus.

Features

Installation

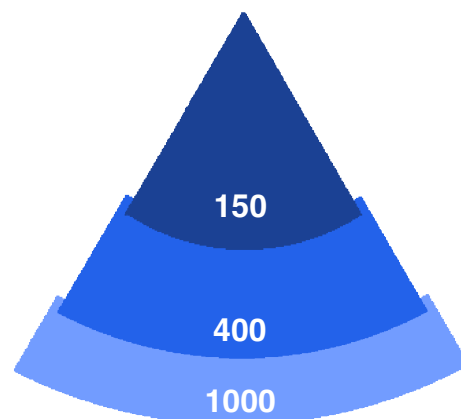
Perfect for new or retrofit installations. Simple to install and commission, making it easy to deploy across projects of any size.

Versatility

Designed for a wide range of applications — from architectural lighting to smart homes, renewable energy, and industrial automation. Compatible with multiple platforms including Crestron, Savant, and Control4, as well as Casambi-enabled devices. Robust RS485 and DALI support ensures reliable wired integration, while future-ready protocols (DMX, KNX, IR, RS232, CAN Bus) expand possibilities.

Range

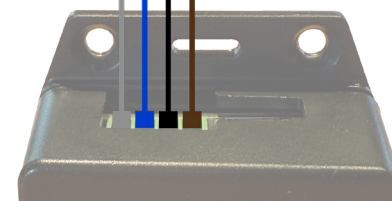
Built for projects of any scale, from single smart homes to large smart city deployments. Offers extended wireless reach with custom antenna options, ensuring stable performance across expansive environments (subject to conditions). Supports long-range Casambi modes and CMS with centralised building management and monitoring.



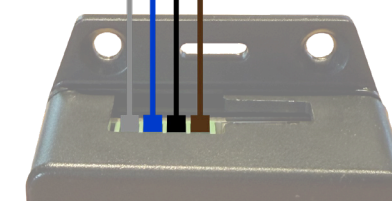
Control

Delivers advanced control options for both new and retrofit installations. Pre-configured modes enable seamless scene management, dimming, and automation. Flexible user input and wireless connectivity (BLE 5.0 / Casambi) allow intuitive local or remote adjustments. An SDK is available for developers to build custom functions and integrations.

DALI +
DALI -
GND
+24 V



485-A
485-B
GND
+24 V



Customisations

SDK for developers to extend functionality. Custom protocol support.

Order Details

Product SKU

Description

S4I-NANO-IB-USB-CAS

With Casambi–USB Conversion, available in No, Standard, or IP65 Enclosures

S4I-NANO-IB-USB-DALI

With DALI–USB Conversion, available in No, Standard, or IP65 Enclosures

S4I-NANO-IB-CAS-485

With Casambi, RS485 & Customisable Platform, available in No, Standard, or IP65 Enclosures

S4I-NANO-IB-CAS-DALI

With Casambi, DALI & Customisable Platform, available in No, Standard, or IP65 Enclosures

S4I-NANO-IB-HALOW-485

With HaLow Long Range, RS485 & Customisable Platform, available in No, Standard, or IP65 Enclosures

S4I-NANO-IB-HALOW-DALI

With HaLow Long Range, DALI & Customisable Platform, available in No, Standard, or IP65 Enclosures

S4I-NANO-IB-USB-RS485

With USB-RS485 Conversion & Customisable Platform, available in No, Standard, or IP65 Enclosures

S4I-NANO-USB-CAS-REPEATER

With External Antenna and IP rated enclosure