C-Bus® Network Automation Controller

Commercial IP network controller for building automation in small, medium, and large buildings

clipsal.com/C-BusTrade

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by **Schneider** Electric

Grow your business in building automation energy and maintenance management

Lighting and HVAC can account for over 70% of a building's energy consumption. Optimise this major energy draw by installing a powerful, integrated solution on open, scalable devices and applications: the C-Bus Network Automation Controller (5500NAC).

The C-Bus Network Automation Controller is an advanced logic controller from Clipsal by Schneider Electric. It allows multiple standards and protocols for building automation and energy metering to be seamlessly and efficiently integrated.

Even more, it provides an outstanding, customisable user interface and a comprehensively distinguished solution that provides real differentiation and added value to you and to your customers.
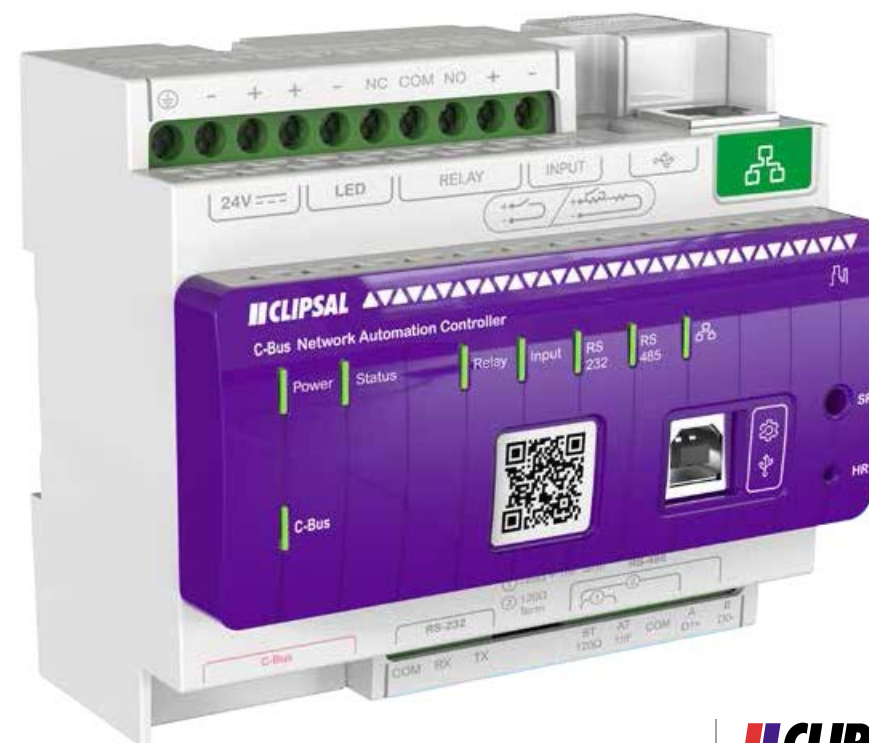
Flexible

Interoperable, connecting different building automation systems

Customisable

User interface can be designed to customers' individual needs

Efficient

Easy to install and repetitive configuration

+70%

of a building's energy is used for lighting and HVAC

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One device, numerous options

The C-Bus Network Automation Controller provides the complete solution:
unlimited flexibility, simplicity, and efficiency for you and your customers.
It delivers in many ways.

Blind control

Automatic
lighting control

Lighting
control

DALI

LED

Gateway

As a gateway, it integrates easily
with the central BMS, as well
as multiple building control and
management systems like lighting,
blinds, heating and cooling.

User interface

As a user interface — based on
a web server application — all
functions can be controlled
and be displayed on local and
mobile devices such as tablets or
smartphones.

Memory functions

The automation controller
displays gas, water and electricity
measurements, and monitors
consumption on daily, monthly,
or yearly basis. It stores and
analyses data, identifies potential
energy-saving, increasing your
building's energy efficiency.
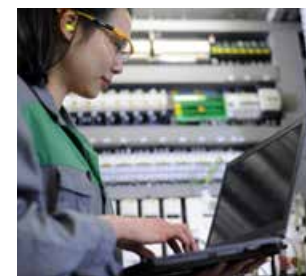
Logic controller

Advanced logic functions are
possible in order to optimise
energy efficiency and comfort.

Event controller

As an event controller, it enhances
communications by sending
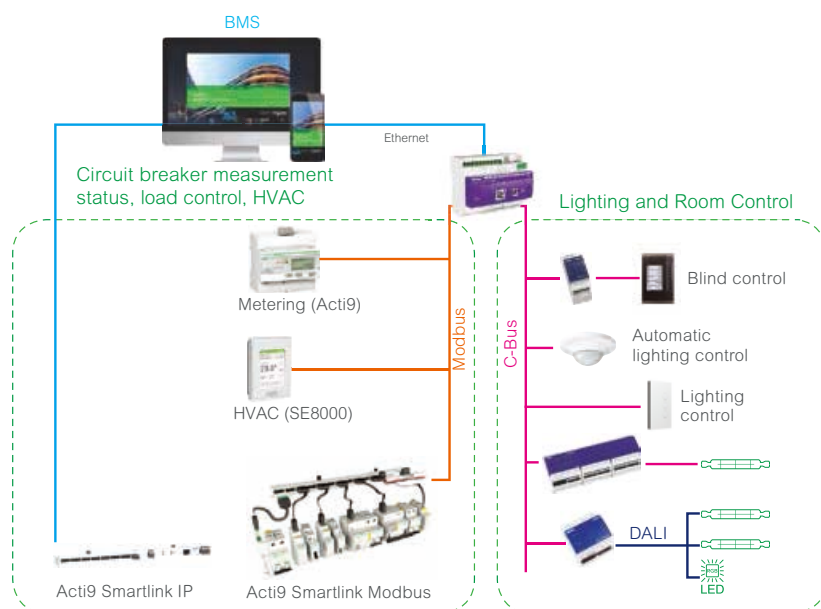notifications/messages in case of
any system failure or issue.

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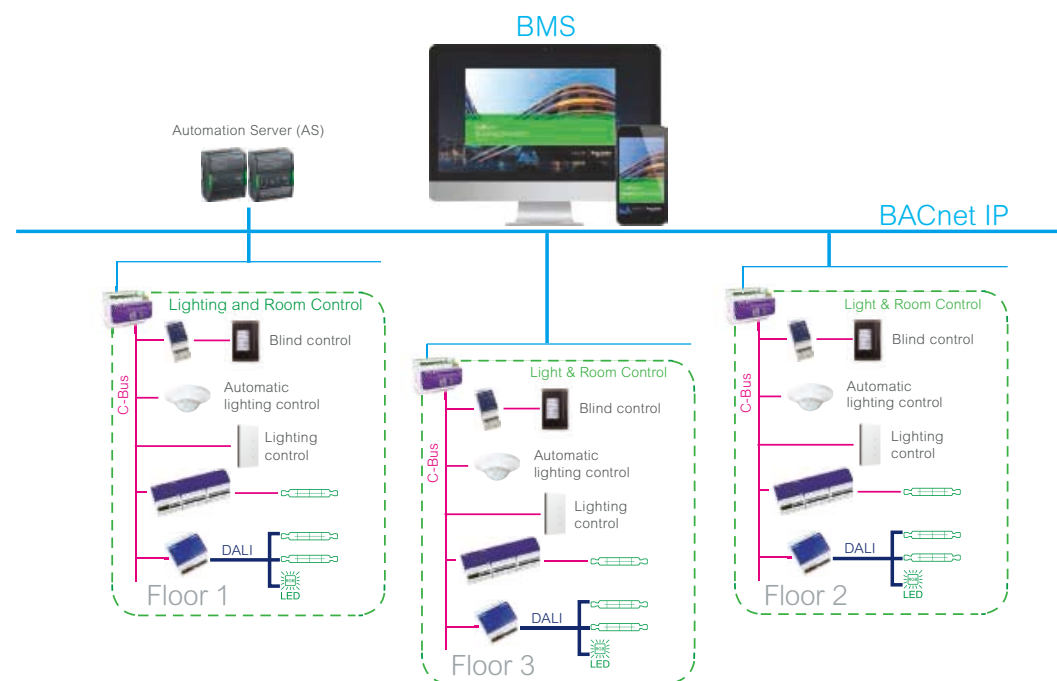by **Schneider** Electric

Facilitate building solutions

Connect the C-Bus Network Automation Controller to your building control functions for a sophisticated small, medium, or large building management solution. Interoperable with different systems, our automation controller links lighting, shutter, and heating control systems to central BMS systems, such as EcoStruxure™ Building Management.

Small and medium building systems

Large building systems

BMS

Ethernet

Circuit breaker measurement status, load control, HVAC

Metering (Acti9)

Modbus

C-Bus

HVAC (SE8000)

Acti9 Smartlink IP   Acti9 Smartlink Modbus

Lighting and Room Control

Blind control

Automatic lighting control

Lighting control

DALI

LED

BMS

Automation Server (AS)

BACnet IP

Lighting and Room Control

C-Bus

Blind control

Automatic lighting control

Lighting control

DALI

LED

Floor 1

Light & Room Control

C-Bus

Blind control

Automatic lighting control

Lighting control

DALI

LED

Floor 3

Light & Room Control

C-Bus

Blind control

Automatic lighting control

Lighting control

DALI

LED

Floor 2

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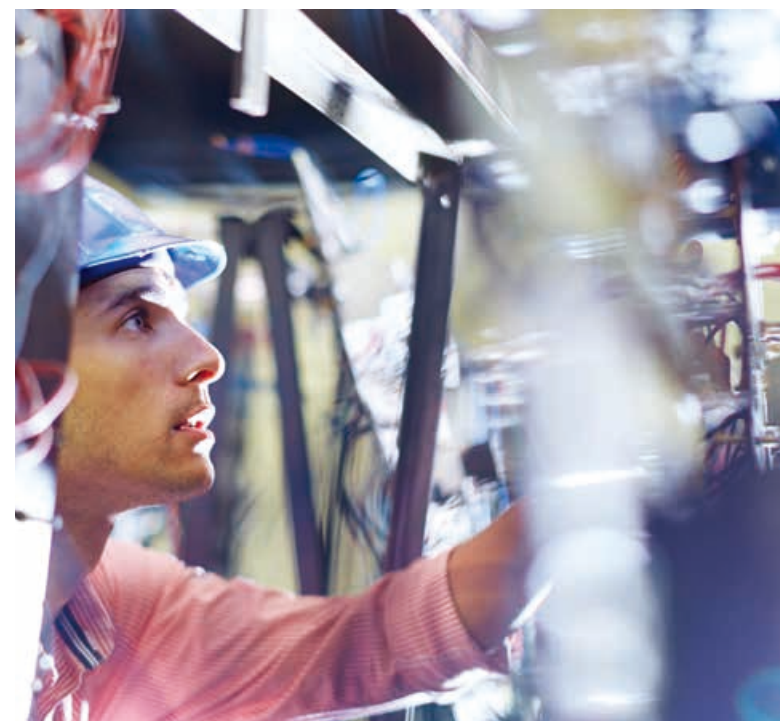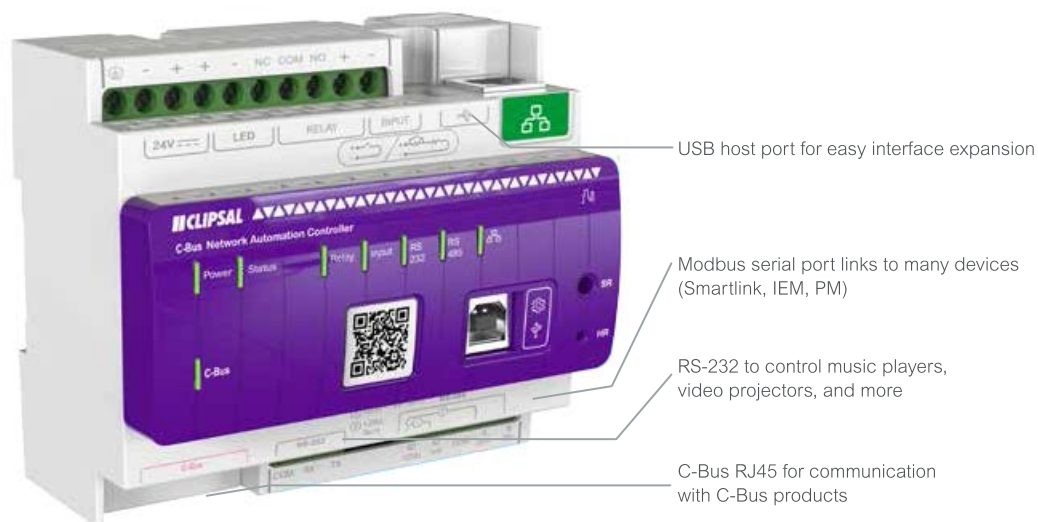CLIPSAL®

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Easy and efficient to install...

The C-Bus Network Automation Controller has a compact, ergonomic design and mounts easily within a C-Bus enclosure via standard DIN rail mountings. With simple connectivity to C-Bus via standard RJ45 sockets, and pre-programming possible while still in the box via the front facing USB connection, the automation controller delivers, saving time and money.

Ready to communicate with multiple protocols

Ethernet connection for communication with BACnet IP server, Modbus, C-Bus and web services. It also grants access via the web server to configure and display the graphical user interface.

USB host port for easy interface expansion

Modbus serial port links to many devices (Smartlink, IEM, PM)

RS-232 to control music players, video projectors, and more

C-Bus RJ45 for communication with C-Bus products

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... and easy to adapt and configure

Depending on your needs and required functions, configuration is fast and simple. These configurations are easily scaled and used across similar projects.

Basic mode: easy configuration

Create and process multi-level visualisations in a few quick steps by simply uploading a background image file and adding objects.

Choose from a selection of icons and templates for all control devices — or easily create your own library with one-click import.

Create schedules simply, integrated in a page or displayed in the schedule view. Provides easy use and modification by users.

Create scenes easily for all controlled objects, providing simple control over hundreds of devices in a single action or event.

Create trend logs easily, either integrated in a page or directly displayed in the trends view.

Integrate a BACnet point in a few clicks.

Complete functions in advanced mode

Execute event-based scripts when a group event occurs on the Bus, common when near real-time response is required.

Run scheduled scripts at the required time and day, often used for various BMS functions and multi-system control.

Use resident function scripts to poll and check for object state changes, usually used for heating and ventilation when data is gathered from more than one group address.

Scripting repository and built-in helpers feature built-in code snippets, making script creation significantly easier. All customers gain access to the scripting repository with examples and tutorials for all common scenarios.
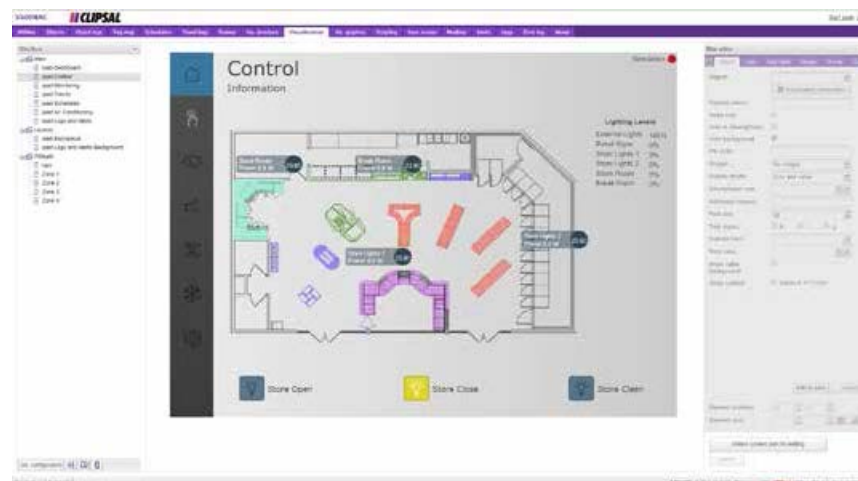
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One interface — all functions

Clear, structured views of all functions, scenes, settings, and values—in a single interface, with interactive floor plans for intuitive orientation and convenient operation.

Convenient local or mobile control

The automation controller interface can be displayed on all devices, local or mobile. Optimised for each device, the interface design ensures quick handling – easier than ever.

100% interface customisation

The automation controller interface can be fully customised, enabling end-users to create their own designs or company branding.

End users and maintenance managers need an easy and quick solution to manage and maintain buildings. The automation controller offers not only an up-to-date system, but also a tailor-made interface. Plus, in advanced configuration mode you can create the customised interface design. Easily change the entire layout, or replace single elements like the logo or an icon.

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Maintenance and management at your fingertips

The C-Bus Network Automation Controller gives you the keys to maintain and control all building functions, from anywhere, via a single interface.

The web-based interface allows building functions to be monitored and controlled via laptop, tablet, or smartphone. All functions can be tracked from everywhere, whether the maintenance manager is onsite or not.

All settings, whether on floors or in single rooms, can be intuitively controlled and adapted thanks to plain icons.

Maintenance information

Display all maintenance information (e.g. status or lifetime of lamps). Alarms highlight malfunctions, like broken lamps, for the maintenance manager's attention. It makes it easy and time-saving to plan as well as to schedule maintenance work when and where necessary.

Metering at a glance

Current water, gas and electricity consumption can be checked and date-recorded on daily, monthly or yearly schedules. Historical comparison charts help identify saving potential as well as highlight abnormal consumption patterns.

Schedules

Schedules for every building function can be set thanks to the integrated time scheduler/calendar function.

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