Qbus

Qbus Open

Google Home · alexa · SAMSUNG · TESLA
SONOS · BOSE · hue · Miele · VIESSMANN · DENON
NUKI · Pioneer · ...

gateway

Qbus Full

controller

IF... THAN...

All Off / All On

Qbus Stand-Alone

Qbus

Qbus makes buildings smart

Plug in, play together
and let it grow

Qbus is a Belgian company that has been developing products and solutions for smart homes and buildings since 1999. Smart buildings offer occupants greater comfort and peace of mind, are more energy efficient, and can be continuously adapted to occupants' needs. Qbus products have already been used in over 20,000 buildings in Belgium and abroad at this time.

The Qbus experience platform offers a range of products and services for smart homes and buildings:

- Qbus Stand-Alone, an expandable basic system with All Off button.
- Qbus Full, a complete automation system with centralised intelligence.
- Qbus Open, a gateway to connect smart devices to Qbus. This allows Qbus to integrate with other smart home systems. Ubiebox makes this a plug & play process.

One solution for all systems

Lighting

"Any Light, Any Switch" is Qbus's motto when it comes to lighting control. On/off , dimming, human centric lighting, (colour) LED strips... – you can do it all with Qbus.

HVAC

Qbus smart switches with integrated temperature sensor ensure that the right rooms are at the right temperatures at the right times. Set the alarm when leaving the house and turn down the heat at the same time. Or use your phone to set the bathroom to 24°C on your way home.

Sun shade

Retract your sun shade automatically when the wind picks up. Set the louvers to horizontal when the sun is shining in. Open curtains in westfacing rooms to let in the evening sun in winter.

Security

Who's at the door? The Qbus door entry unit transmits an image of any visitors to your interior display or phone. Receive an alert, see who's there, talk to them, and open the door if needed. Open the door for yourself , your cleaner or gardener, your children, the babysitter, etc. Qbus access control allows you to create virtual access badges for spaces as needed, at the right times and on the right days. Lost keys or misplaced codes are a thing of the past, and you can always see who was present at your home or office at what times.

Energy management

Qbus can turn specifi c power-consuming devices on or off in response to digital or other data from electricity, water, gas, and other meters. The Qbus app offers a visual representation of your consumption.

Why Qbus? Easy, flexible and future-proof

Easy to configure

A Qbus system offers a simple solution for creating a smart home. Qbus Stand-Alone modules can be confi gured without a computer, with buttons for easy adjustment of various settings. The Qbus Full system comes with free, userfriendly Qbus confi guration software. We also offer training options to get technicians off to an even faster start configuring Qbus.

Easy to use

With Qbus Full, end users can use the free Qbus Control Cloud to control and view their smart home and make various adjustments in a simple, intuitive way.

Easy to install

The Qbus Stand-Alone system consists of switching modules, dimmers, and motor controls. All inputs and outputs are connected to the Qbus modules in a star topology. Installing a Qbus Full system is even simpler. In a Qbus Full system, a Qbus twisted pair bus provides power and communication to all connected Qbus modules. The Qbus twisted pair bus is non-polarised and can be used in any topology (loop, tree, star, or a combination of these). The result is an extremely flexible, fast, and simple installation.

Flexible

Adjustable control via every switch, sensor, smart phone, tablet, PC

Input modules make it possible to use any standard switch or push button with a Qbus system Additionally, Qbus off ers smart switches with integrated sensors and colour LEDs in Niko, Btcino, CJC, Lithoss, JUNG, SUMUM, and Tastu styles. But Windows, iOS and Android devices can also be used to control, view or receive messages from a smart Qbus building.

Ready for the future

The modular system remains compatible with the original components, allowing for further expansion, and has done so since 1999.

A Qbus system can start with a limited installation but also off ers extensive possibilities. It's a piece of cake to expand from a Qbus Stand-Alone start system to a Qbus Full installation.

New developments always remain compatible with the original products. Our free software updates ensure that the modules in your installation also can support new functions and techniques.

Qbus Stand-Alone

Prepare your home for the future in an easy, affordable way.

The patented Qbus Stand-Alone (SA) range contains modules for controlling screens, roller blinds, wall sockets and lighting, but also for dimming all types of lighting, with or without a cascade feature. All Qbus SA modules are also suitable for stand-alone use with limited domotics functionality such as All Off and Panic buttons; even Energy Management is possible. The buttons offer additional settings. Additionally, Stand-Alone modules can be connected to a Qbus controller to add more Stand-Alone features or to make them part of a full Qbus domotics system.

Lighting   Socket   Shutter

Dimmers   Dimmers   Screens   Dimmers   Lighting   Stopcontact   DALI   DALI   Ledstrip

ON
Ledstrip

Smart Energy Management Module

- Internal power supply
- Manual operation with LED feedback
- Expandable to full-fledged home automation system

* Suitable for all homes with a digital meter

Smart impulse relay

- Standard switches control outputs
- LED feedback possible with external power supply
- No external power supply required for push buttons

- Short push = All outputs off (Energy saving)
- Long push = All outputs on (Panic button)

Smart universal dimmer

**Motor control with positioning**

Smart analog control module

DALI 4 group dimmer

Ledstrip dimmer

- **All Stand-Alone Modules:**
- **Adjust settings using buttons**
- **Also suitable for use with controller (Qbus Full)**

Stand-Alone modules
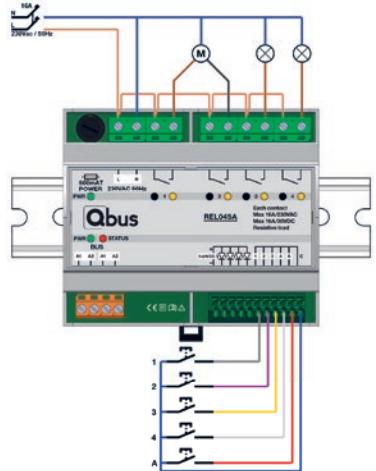
RELAY MODULES

Four-channel smart teleruptor switching module with potentialfree outputs

Product code: REL04SA

- Includes 4 x 16A switched potentialfree outputs and five inputs, of which one is an All Off / Panic button
- Can also be used to control motors
- Additional adjustments possible with temporary controller link: changes to All Off / Panic button, timeout function and duration
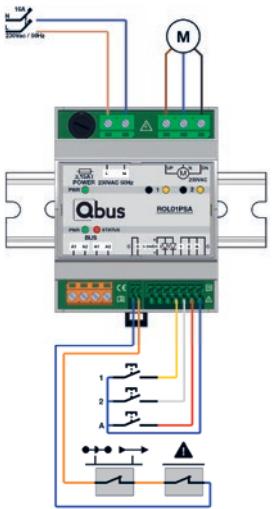
MODULES FOR MOTOR CONTROL

Control module for one motor (with or without blinds) with positioning

Product code: ROL01PSA

- Controls 1 230V motor and has 3 inputs, including one for All Off /Panic button
- With safety input for weather sensor to activate the UP output in case of heavy wind or rain, window contact, open window, etc.
- Additional adjustments possible with temporary controller link: changes to All Off /Panic button and duration
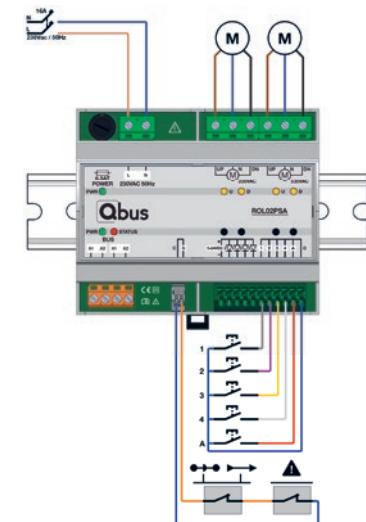
MODULES FOR MOTOR CONTROL

Control module for 2 motors (with or without blinds), with positioning

Product code: ROL02PSA

- 4 inputs for motor control and 1 input for All Off/Panic button
- Control of two 230V motors for screens, roller blinds, sun shades, etc.
- With safety input for weather sensor to activate the UP output in case of heavy wind or rain, window contact, open window, etc.
- Additional adjustments possible with temporary controller link: changes to All Off/Panic button and duration.
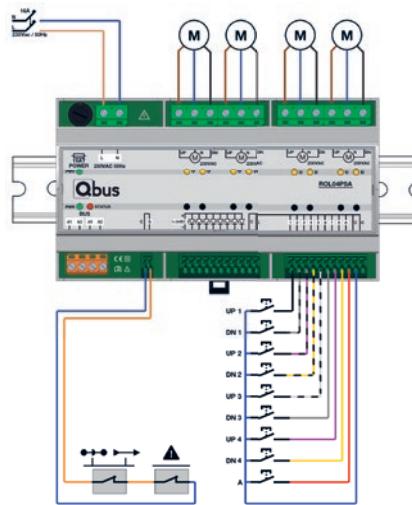
MODULES FOR MOTOR CONTROL

Control module for four motors (with or without blinds) with positioning

Product code: ROL04PSA

- 9 inputs for motor control and 1 input for All Off /Panic button
- Control of 230V motors for screens, roller blinds, sun shades, etc.
- With emergency contact for weather sensor to activate the UP output in case of heavy wind or rain, etc.
- Additional adjustments possible with temporary controller link: changes to All Off /Panic button and duration
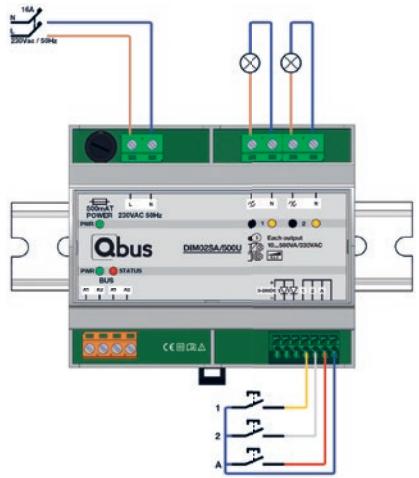
DIMMERS

## Two channels (Stand-Alone) universal dimmer

Product code: DIM02SA/500U

- Dims 2 circuits of 10-500VA
- For halogen lamps, electronic and traditional transformers, incandescent lamps, dimmable CFL and 230V LED lamps
- This module can also be used Stand- Alone (without controller) as there are 3 direct inputs on board for the connection of standard push buttons (including an All Off & Panic button)
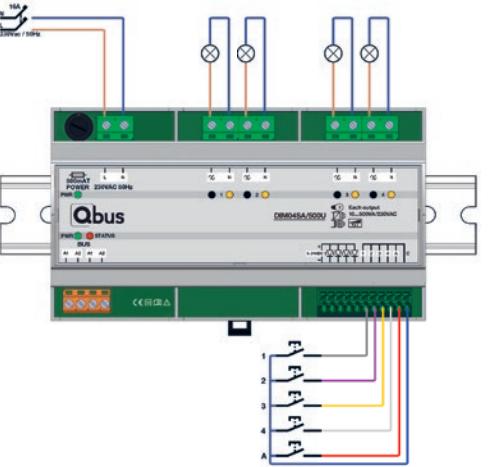
DIMMERS

Four-channel (Stand-Alone) universal dimmer

Product code: DIM04SA/500U

- Dims 4 10-500VA circuits
- For halogen bulbs, electronic and conventional transformers, incandescent bulbs, dimmable CFLs, and 230V LEDs
- Additional adjustments possible with temporary controller link: changes to All Off/ Panic button and other dimmer settings
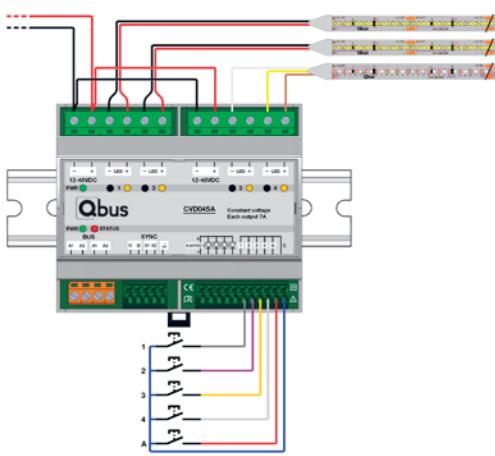

DIMMERS

Four-channel (Stand-Alone) high frequency dimmer for LED strips with 12V-48V constant current source

Product code: CVD04SA

- Has 4 PWM outputs for dimming of LED strips at 2 KHz
- Dimmer can be set to dim Warm White/Cold White (2 combined outputs), RGB (3 combined outputs), or RGBW (4 combined outputs)
- No stroboscopic eff ect and a consistent colour even at low dimming levels
- A 12-48VDC power source can be used per two channels
- With the "Sync" in- and outputs, diff erent modules can control LED strips synchronously (also in Stand-Alone mode)
- Additional adjustments possible with temporary controller link: changes to All Off / Panic button and other dimmer settings
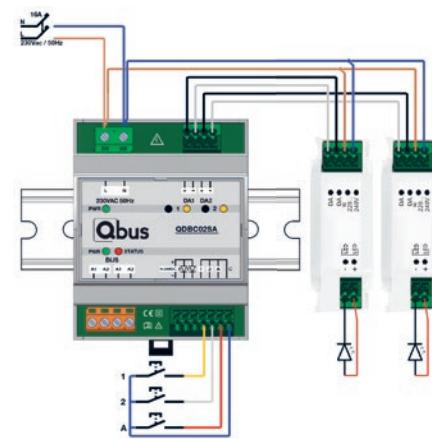
DIMMERS

Stand-Alone DALI broadcast dimmer

Product code: QDBC02SA

- Module to dim 2 DALI lighting circuits without programming
- Dims up to 64 DALI units distributed over 2 DALI circuits
- Additional adjustments possible with temporary controller link: changes to All Off /Panic button and other dimmer settings
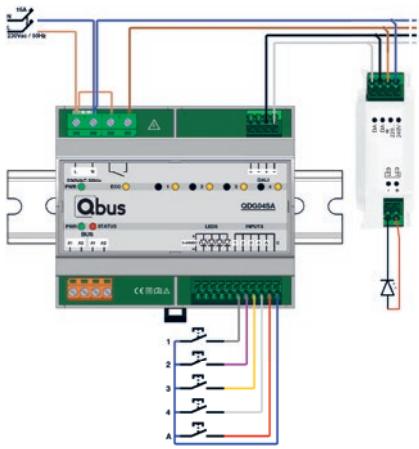
DIMMERS

Stand Alone DALI four-group dimmer

Product code: QDG04SA

- Module to dim 4 DALI lighting circuits without programming
- Dims up to 64 DALI units distributed over 1–4 groups on the same DALI circuit
- Additional adjustments possible with temporary controller link: changes to All Off/Panic button and other dimmer settings..
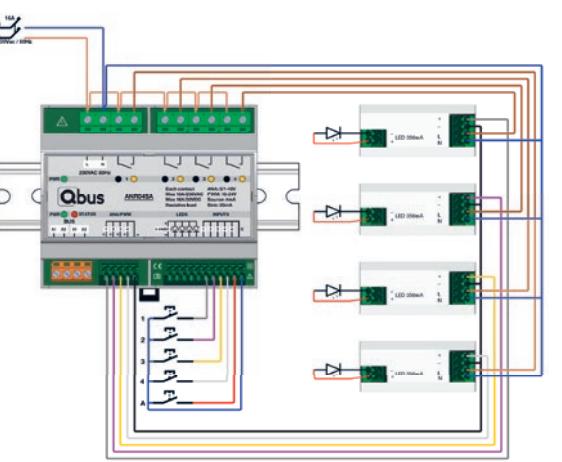
ANALOGUE CONTROL MODULE

Four channel (Stand-Alone) analogue control module for dimming and/or switching

Product code: ANR04SA

- Has 4 outputs that can be used as analogue dimmers (0/1-10V or PWM) or as relay outputs
- Additional adjustments possible with temporary controller link: changes to All Off /Panic button and other dimmer settings

ENERGY MANAGEMENT

Luqas, Smart energy management module

Product code: LQS06SA

- Smart control of heat pump or boiler and dynamic control of EV charging point based on energy loads.
- P1 port splitter with 1 IN/3 OUT and Modbus TCP IP communication with EV charging point
- 2 inputs to read pulses from KwH counters and Ethernet port for operation of energy slider in Qbus Control. Optional: energy dashboard, history, push notifications, email feature and other actions.
- Easy Luqas configuration via QR code on module
- RS485 connector for future connections and applications
- Automatic firmware updates for expanded functionality

* Suitable for all homes with a digital meter
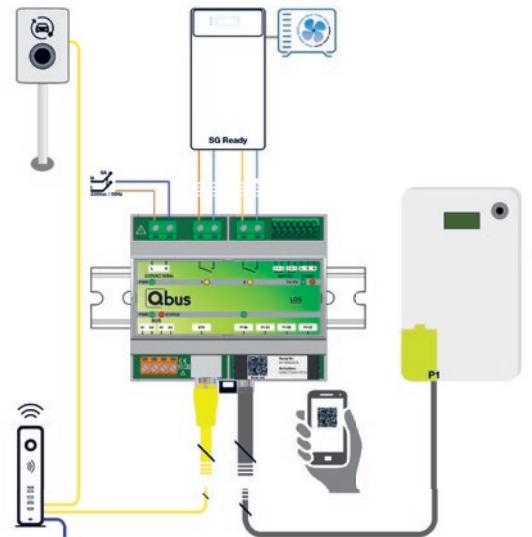
STAND-ALONE ACCESSORIES

CAN Bridges

Product code: CABREL08-CON

- CAN bridge for 2x REL04SA
- CAN bridge for 2x ANR04SA
- CAN bridge for 1x REL08
- Cross-sectional area 1.5mm²

Power supply for 24VDC LED feedback for Stand-Alone push buttons

Product code: LEDPWS/24.015

- The CTD power supply cannot be used for anything else. Use this additional power supply with SA push buttons.
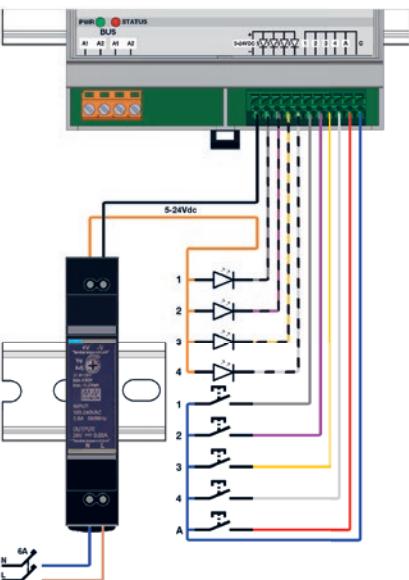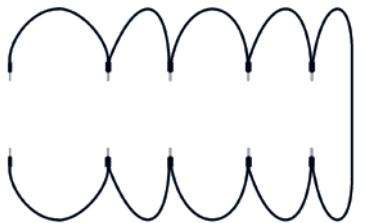
SWITCHES/PUSH BUTTONS

Stand Alone Tastu style fingerprintresistant glass switch with 1, 2 or 4 buttons and RGB LED

Product code: SWC02SA, SWC04SA

The Tastu® has no mechanical push buttons, but operates with touch sensors that are integrated in the glass plate. With these capacitive touch surfaces the users can control all the technologies in that room, that floor or in that building. These Tastu® switches are fingerprint-proof: a special coating on the glass switch prevents fingerprints on the glass. The Stand-Alone version of the Tastu® can be used with the Qbus Stand-Alone modules and other impulse relays.

Cover plates

The Tastu® cover plates are simultaneously contemporary and timeless, functional and stylish like the Tastu® switches. Like the switches they give a slightly floating feeling for the distance between the wall and the glass. The Tastu® cover plates are available for Niko switch equipment and for System 55 (Schneider/Merten, Gira, JUNG) switch equipment and always in single, double and treble horizontal version.

- RGB LED feedback. LED feedback adjustable for entire switch.
- 12-24VDC power supply
- No more fingerprints thanks to glass coating
- Compatible with Stand-Alone modules and functions such as conventional
- teleruptors, dimmers, and others controllable through potential-free contacts
- Suitable for voltages between 12 - 24VAC and 12-24VDC
- •Solid state contacts 12-24VAC – 12- 24VDC, protection at 30V
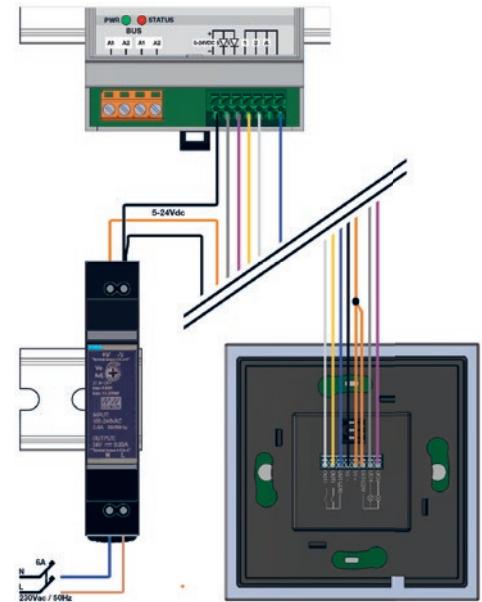
Qbus Full

A Qbus Full system enables seamless integration of energy management, heating, cooling, ventilation, security, lighting, screens, gates, audio, and so much more. The Qbus system is easy to install, easy to control and operated from any switch, tablet, smart phone or PC and can always be expanded further.

A complete automation system with centralised intelligence for more comfort and lower energy consumption

The Qbus modules form a single and simple integrated system instead of separate control solutions. All the various technologies within the home or the building are seamlessly connected via a 2-wire bus cable. The communication between all these technologies is controlled by a smart, central Qbus controller.

Qbus provides an endless platform of products and solutions that meet your specificneeds and thus the most demanding requirements of the customer

- Qbus controllers: the very core of the installation. For small and large installations.

Lighting | Socket | Shutter

Dimmers | Dimmers

Dimmers

- Qbus weather station (precipitation, wind speed, luminosity (in east, west or south), twilight)

Shutter | Screens

Coupling external sensors, switches, contacts, ...
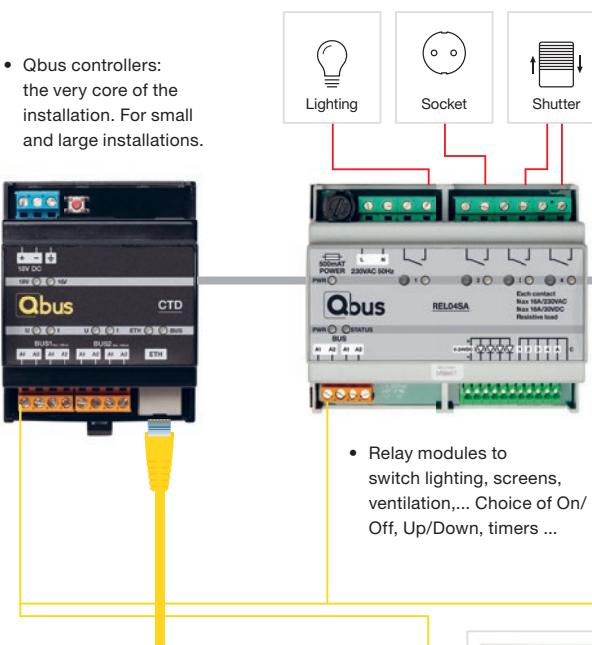
- Relay modules to switch lighting, screens, ventilation,... Choice of On/Off, Up/Down, timers ...
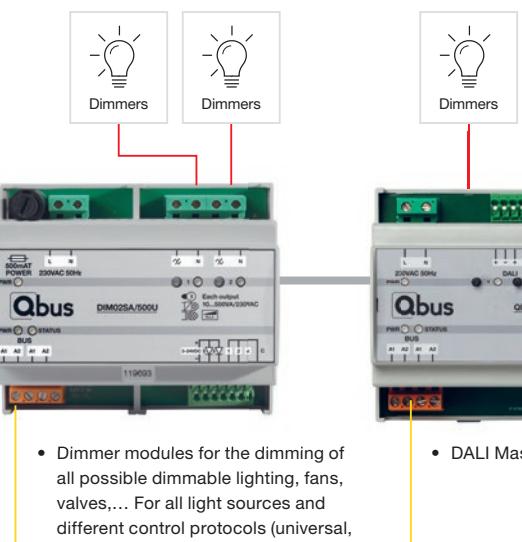
- Dimmer modules for the dimming of all possible dimmable lighting, fans, valves,… For all light sources and different control protocols (universal, 0/1-10V, DALI, DMX …)

- DALI Master

- Connection modules for HVAC systems such as Daikin, Duco, Nibe, Thermia, Toshiba, etc.

- Connection module for digital meter for smart control of heating, warm water, wall sockets, etc.

- Motor control with positioning: for screens / shutters / blinds / curtains with or without slat control

- Interface between Qbus and wireless protocols such as Easywave and Zigbee

Modbus | Qbus | 31
televic healthcare | KNX | Google Home
BOSE | SONOS
hue | Satel | alexa
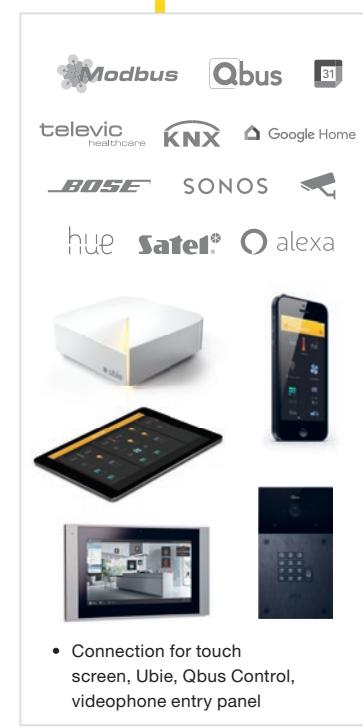
- Smart switch (Niko design)

- Couple module for regular switchor push button

- Smart switch with motion and light sensor (Bticino design)

- Smart switch (SUMUM design)

- Smart switch with temperature sensor (JUNG design))

- Smart Switch (CJC design)

- Smart Switch (Lithoss design)

- Motion and light detector

- Motion and light detector

- Smart switch with temperature sensor (TASTU design)

- Connection for touch screen, Ubie, Qbus Control, videophone entry panel

- Tastu Display White

- Outdoor detector motion, light, temperature

- Air quality sensor: measures CO2, humidity, temperature
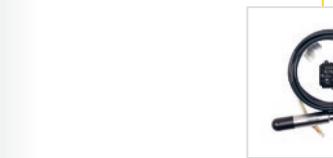
- Fluid sensor: measures water or fuel levels

- Motion and light sensor for integration in skirting boards, closets …

- Decentralised analogue dimmer

- Energy Counter Module

- Decentral relay module for On/Off or Up/Down control

Ventilation | Lighting | Heating | Shutter

Qbus Full installation tips

1. Controller

1.1 Power supply
Add a separate C6A fuse for the controller.Power for the CTD must be supplied by a stabilised 18 VDC/3 A power supply. (ref. CTDPWS/DIN included with CTD as standard).

1.2 Netwerk connection
Connect to your computer using a network cable for the confi guration. The CTD does not support a wireless connection. For online control or programming over your project's network/WiFi, you must connect the controller to the local network's router or switch (temporarily or otherwise). For more information, visit www.qbus.be, Support, to consult the CTD10_CTD40_CTDmax technical data sheet.

2. Bus cabling

1. Always use shielded cable of at least 2 x 1 mm²
2. An EIB cable is recommended for the bus. To achieve the 1 mm² minimum cross section, twist together 2x2 wires at a time.
3. The following maximum bus lengths apply:
    a. Closed loop: 400m → Recommended
    b. Star or tree topology: 100m
      (module connections distributed along the length)
c. Branch cables: max. 30m
4. No polarity on modules connecting to the bus
5. A controller has multiple physical bus connections. This allows for the creation of more than one loop for larger projects. If you have any questions or doubts, contact Qbus.

3. Modules/Bus Participants

3.1 Serial numbers
Every Qbus module/bus participant has a unique serial number. This is displayed on a sticker on the product packaging and on the product itself. Serial numbers are necessary for the configuration.

3.2 Write down serial numbers
Be sure to write down the serial numbers before programming Qbus. You will need to enter these when programming.

Closed loop

Tree structure

Star structure
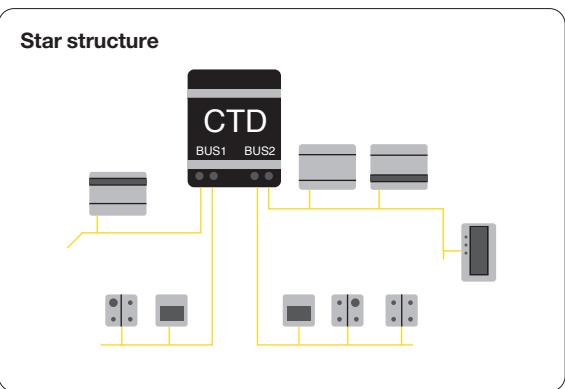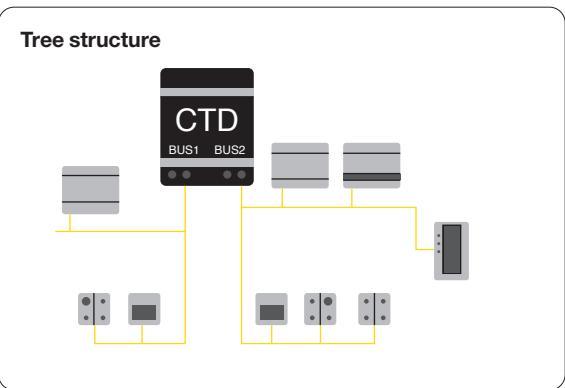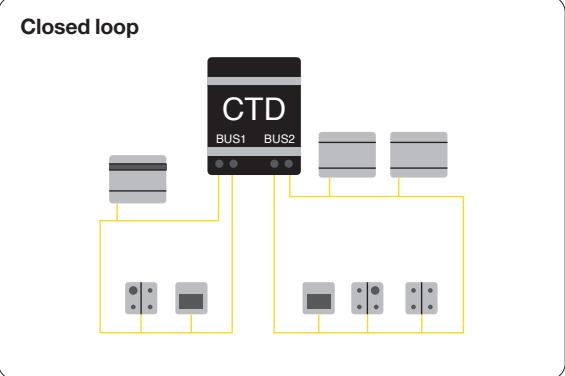
Technical specifications Qbus two-wire bus:
- No polarity
- Any topology
- Bi-directional and simultaneous communication
- Power bus principle = high breakdown insensitivity

Qbus two-wire bus requirements:
- Any shielded cable with 2 x 1.0 mm² cross section
- Maximum distance between controller and farthest module on the bus:
  - *For closed loop (most suitable): 200 metres (= 400-metre loop). An extension may even be added to the loop as long as this does not exceed 30 metres and the total distance between the controller and the farthest module is no more than 200 metres*
  - *For star or tree topology: Maximum distance between controller and farthest module on the bus:100 metres*

Use a RC circuit in case of poor communication Contact Qbus Support for advice.

Controllers

The smart central Qbus Controller is the core of a Qbus Full installation. The controller ensures both the operation and supply of all Qbus modules that are connected to it via the two-wire bus. This two-wire bus has no polarity and can be installed into any architecture (loop, star, tree): it could not be more flexible and easy.

The core of your Qbus Full installation

With a Qbus controller your smart home or building has moods, time settings, logic functions, presence simulation, astronomical clock, event logging, etc. All controllers also have a network portal through which the installation can be controlled and viewed with the QbusCloud.

With this QbusCloud the home can be viewed and operated with any platform (iOS, Windows, Android) from anywhere in the world. If desired, your Qbus controller can send e-mails, push notifi cations and text messages when the children get home, the water consumption is through the roof or the motion detector has detected an alarm situation with granny.

	CTD10	CTD40	CTDmax
Power supply	18VDC/3A (included with Controller)		
Bus output (per bus):	18Vdc/2x1000mA		
Normal consumption (no bus load)	2W		
# modules per controller (approximate)	10	40	+/-150
# bus connections	2		
Housing	DIN-rail		
Dimensions (HxWxL)	4 modules (72mm) + 4 modules (72mm)		
LED indicators	Power, current: green = OK; red/orange = see technical data sheet Bus communication: red = receiving data from bus, green = sending data to bus ETH communication: Green on data transmission		
Communication options	Ethernet		
Logical functions	Boolean logic (IF, THEN, ELSE) and Analogue logic (<,>,=,-,+,x,/)		
Number of spheres	92		
Number of timers	100		
Presence simulation	YES		
Atomic clock	YES		
Onboard memory	32G SD card for system con¬ guration and communication data storage		
Expansion units	1-4 x EXP 15	1-2 x EXP 15	Not possible; CTD is max.
Operating temperature	10°C - 50°C		
Storage temperature	-10°C tot 60°C		
Maximum humidity	93%, no condensation		
Ingress protection rating	IP20, EN 60529		

Qbus Controller

Product code: CTD10, CTD40 and CTDmax

- CTD10 = Controller for 10 Qbus modules (expandable), power supply and Qbus Cloud control included.
- CTD40 = Controller for 40 Qbus modules (expandable), power supply and Qbus Cloud control included.
- CTDmax = Controller max for average of 2 x 75 Qbus modules, power supply, and Qbus Cloud control included. 2x bus 1000mA
- Compatible with all systems from 1999
- CTD10 and CTD40 can be further expanded with EXP15 expansion cards
- Network port for programming, control and visualisation using QbusCloud
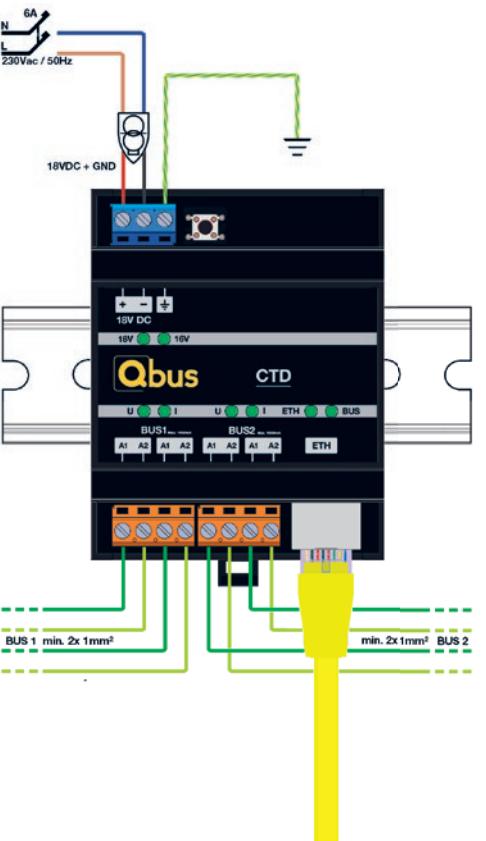
*Module= Qbus bus participant such as switch, sensor, or DIN module

Expansion card (EXP15) for Qbus controller (CTD10/CTD40)

The Qbus Controllers CTD10 and CTD40 can easily be expanded via an expansion card (EXP15). Per expansion card, 15 modules can be connected. Once 4 expansion cards have been added to the CTD10 or 2 expansion cards to the CTD40, these controllers become a fullfledged CTDmax. Thanks to this system, the CTD can grow along with the installation.

How to expand a controller?
Refer to the technical data sheet or scan the QR-code.

Relay
Modules

Relay or switch modules switch outputs. These modules are used for the control of lighting, ventilation, screens, heating, gates, ...

Choose the function of your output module

The Qbus relay modules have no specific function – it is set according to the application they are used for. A relay output can be used as an ordinary on/off switch, but also as a push button output that is only active when the button is pressed (e.g., a door bell) or as a timer that only switches on the output for a specific time. It is even possible to operate motors with relay outputs (curtains, screens, sun awnings, ...).

	REL02/DEC	REL04SA	REL08
Power supply	Bus feed	230Vac, +/-10%, 50Hz	
Max. fuse	8A	16A/2P	
Bus charge	Resting without LEDs 5mA Resting with LEDs 8mA. At full charge LEDs 16mA, with LEDs 20mA.	10mA at rated current 13.8V	
Typical consumption (all outputs active)	8mA on the bus	4,15VA	6,45VA
Internal fuse	None	500mAT single-phase	100mAT single-phase
Breakdown voltage	4,500V, 1.2 x 50 µs	tested on 3kVAC	
Casing	Plastic casing for integration in integrated box	DIN-rail	
Type	OUT1 - OUT2: 2 potentialfree NO contacts	OUT1 - OUT4: 4 potentialfree NO contacts	OUT1-OUT8: 8 potentialfree switch contacts
Maximum power	8A at 230VAC / 30VDC	per output: 16A at 230 VAC; 16A at 30 VDC	
Maximum charge	Resistive charge (cosφ = 1) 8A at230VAC / 30VDC. Inductive charge (cosφ= 0.4; L/R= 7ms) 3.5A at 230VAC / 30VDC	Per output: Resistive load (cosφ= 1) 16A at 230Vac / 30 VDC. Inductive load (cosφ= 0,4; L/R = 7ms) 8A at 230 Vac / 30 VDC.	
Maximum switching voltage	250 VAC, 125 VDC	250 VAC, 125 VDC	
Set / reset time	15ms max / 5ms max	15ms max / 5ms max	
Duration	Min. 100,000 operations	20 million mechanical operations	
Running time	-	-	
LED indication	-	Green LEDs: 230V/bus present, Red LED: Flashing during start-up and programming, Orange LEDs: Lit if output active	Orange LEDs: Lit if output active, flashing if status manually overruled
Number of inputs	2 potential-free contacts with LED indication	5 potential-free contacts, including All On/All Off input. With LED indicators for the inputs if provided with additional 5-24VDC power.	-
Input function (can be configured with configuration software)	Configurable via System Manager III	Pushbutton: Relay changes on closing and re-opening the input (default setting in Stand-Alone mode). Normally Open: Input open → relay open, input closed → relay closed (e.g. call button). Normally Closed: Input open → relay closed, input closed → relay open. Switch: Relay changes along with any change in the input. - Switch: On/off function	-
Dimensions	12mm x 49mm x 49mm	6 modules (107mm)	9 modules (161mm)
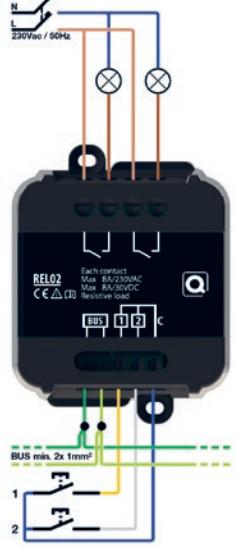
Two-channel relay module

Product code: REL02/DEC

- Includes 2 × 8A switched outputs and 2 inputs. This module fits in a mounting box and is fed by the Qbus bus
- This module fits into an integrated box and is fed by the Qbus bus
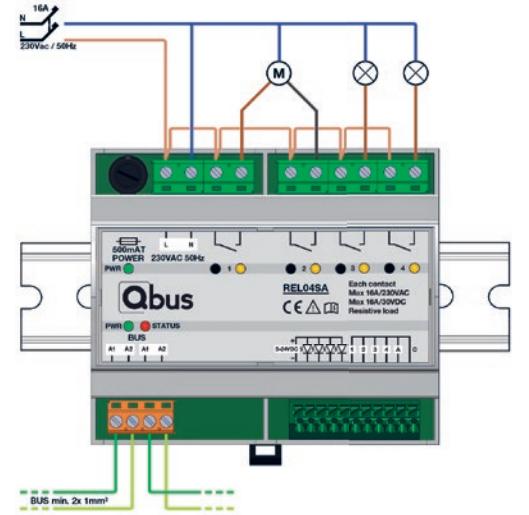
Four-channel relay module

Product code: REL04SA

- DIN rail module
- Contains 4 x 16A connected outputs and 5 inputs including 1 All Off / Panic button
- Module can be used both Stand-Alone and combined with a controller (Qbus Full)
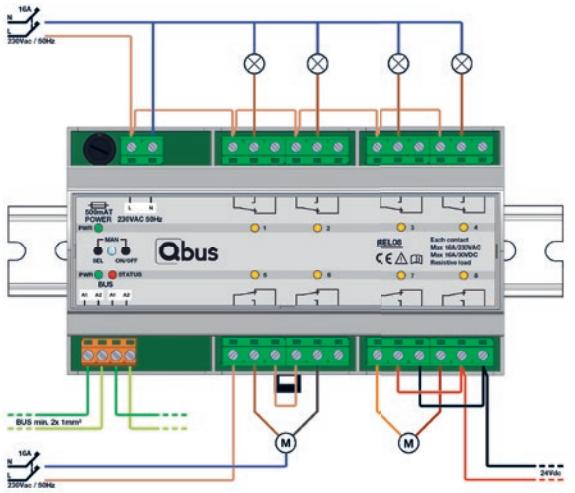
Eight-channel relay module

Product code: REL08

- DIN rail module
- Contains 8 x 16A connected outputs

2.3

Modules for motor control

With a Qbus system the rolling blinds can be closed both centrally and de-centrally, both with and without positioning. Qbus has motor control modules that can be used on their own, as well as motor control modules that can solely be used in a Full Qbus installation.

Controlling screens, roller shutters, blinds, positioning lamellae

With the Qbus motor control modules, standard 230V motors can be operated; you control your curtains or rolling blinds and screens and sun awnings can be automatically positioned according to sunlight, rain or wind, etc.

|	ROL01/DEC	ROL01PSA	ROL02PSA	ROL04PSA	REL04SA / REL08
Power supply	Bus feed	230Vac, +/-10%, 50Hz			These modules can also be used to drive motors. Via the settings two outputs can be internally linked to operate UP and DOWN. See technical details with Link modules.
Max. fuse	6A	16A/2P			
Bus Charge	Resting without LEDs 5mA. Resting with LEDs 8mA. At full charge LEDs 16mA, with LEDs 20mA	10mA at 13.8V rated voltage			
Typical consumption (all outputs active)	5mA bus				
Internal fuse	None	6,3 AT			
Breakdown voltage	4,500 V, 1.2 x 50 µs	Tested at 3kVAC			
Casing	Plastic casing for integration in integrated box	DIN-rail			
Type	UP - DN: 230V. UP - DN: internally linked contacts	UP1 - DN1: 230V. UP1 - DN1: Contacts linked internally	UP1/2 - DN1/2: 230V. UP1- DN1 and UP2 - DN2: Contacts linked internally	UP1/4 - DN1/4: 230V. UP1 - DN1, UP2 - DN2, UP3 - DN3, UP4 - DN4: Contacts linked internally	
Maximum Power	2,15A per output (500VA)	2.15A per output (500VA)			
Maximum charge	Resistive charge (cosφ = 1) 8A at 230VAC / 30VDC. Inductive charge (cosφ = 0.4;				
Maximum switching voltage	250 VAC, 125 VDC	250 VAC			
Duration	Min. 100,000 operations	20 million mechanical operations			
Led indication	-	Green LED = Power supply. Red LED = 2 seconds on start-up and during programming. Orange LED: Flashing slowly = roller blind not calibrated. Rapid flashing during calibration. UP/DN: Up1 / Down 1; Up 2 / Down 2..			
Number of inputs	2 potential-free contacts with LED indication	3 potential-free contacts, including All On/All Off input. With LED indicators for the inputs if provided with additional 5-24VDC power. 1 safety input (NC) for connecting weather sensors	5 potential-free contacts, including All On/All Off input; with LED indicators for the inputs if provided with additional 5-24VDC power. 1 safety input (NC) for connecting weather sensors	9 potential-free contacts, including All On/All Off input. With LED indicators for the inputs if provided with additional 5-24VDC power. 1 safety input (NC) for connecting weather sensors	
Input function (can be configured with configuration software)	Push button: open when inactive (e.g. door bell). Normal Open: open when inactive. Normal Closed: closed when inactive. Switch: on/off function	Pushbutton: Relay changes on closing and re-opening the input (default setting in Stand-Alone mode).Regularly Open: Input open → Relay open, input closed → Relay closed (e.g. call button).Regularly Closed: Input open → Relay closed, input closed → Relay open.Switch: Relay changes along with any change in the input. - Switch: On/off function			
Dimensions	12mm x 49mm x 49mm	4 modules (72mm)	6 modules (107mm)	9 modules (161mm)	

Decentralised control module for one motor

Product code: ROL01/DEC

The decentralised ROL01 module takes power from the bus and can easily be installed in the proximity of the motor. The ROL01 module also has two inputs on board (with two LED outputs) through which push buttons (with LED feedback) window, door and other contacts can be connected.
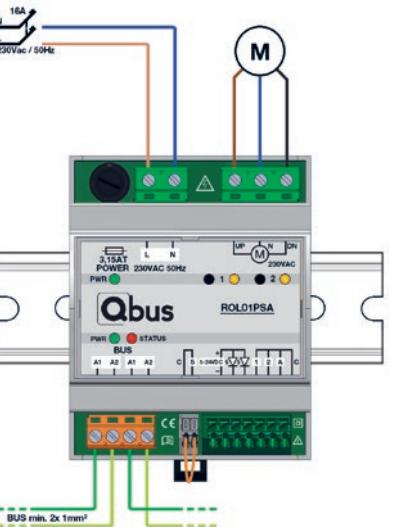

Control module for one motor (with or without blinds), with positioning

Product code: ROL01PSA

One 230V motor can be connected to the ROL01PSA DIN rail module for controlling roller shutters, curtains etc. The motor can be positioned between 0% and 100% of the running time; this position can then be used in scenes, clock times and logic. An internal calibration mechanism ensures that each time the shutter or curtain is completely raised or lowered, it is calibrated. As a result, this ensures that the required position also remains the same aft er a period of time.

The ROL01PSA has a safety input for a weather sensor to activate the UP output in case of heavy wind, rain, etc. The module can be used both stand-alone and in combination with a controller (Qbus Full).

Control module for 2 motors (with or without blinds), with positioning

Product code: ROL02PSA

A ROL02PSA DIN rail module can be used to connect two 230V motors to control roller blinds, curtains, etc. Each motor's positioning can be set based on a duration of anywhere between 0% and 100%; this position can then be used by scenes and timers. The ROL02PSA's internal calibration mechanism recalibrates it each time the roller blind or curtain is opened and closed fully. That way, the desired position remains the same even after prolonged use.

The ROL02PSA has a safety input for a weather sensor to activate the UP output in case of heavy wind, rain, etc. The module is suitable for both Stand-Alone operation and use with a controller (Qbus Full).
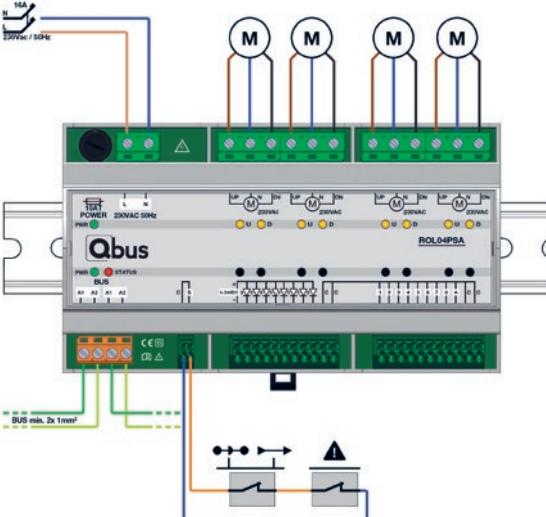
Control module for four motors (with or without blinds), with positioning

Product code: ROL04PSA

Four 230V motors can be connected to the ROL04PSA DIN rail module for controlling roller shutters, curtains etc. The motors can be positioned between 0% and 100% of the running time; this position can then be used in scenes, clock times and logic. An internal calibration mechanism ensures that each time the shutter or curtain is completely raised or lowered, it is calibrated. As a result, this ensures that the required position also remains the same aft er a period of time.

The ROL01PSA has a safety input for a weather sensor to activate the UP output in case of heavy wind, rain, etc. The module can be used both stand-alone and in combination with a controller (Qbus Full).

Dimmers

Every light source can be dimmed with an extensive range of dimmers. Qbus has dimmers that can be used on their own, or dimmers that can only be used in a Qbus Full installation.

Create moods and save energy

With the Stand-Alone dimmers incandescent lights, halogen lamps, energy saving lamps, LED lamps and LED strips, DALI frames, etc can be dimmed. DALI or DMX frames can also be controlled in a Qbus Full installation

There are several options for dimmer control

- With a 1-button dimmer you use fewer buttons, butthe cycle must always be completed: starting with 0% to 100% and back to 0%
- With a 2-button dimmer the Up and Down button must be used but the cycle can be reversed mid-fl ow (does not have to go from 0% to 100% or vice versa)

If a button is held down continuously, there is a transmission time from zero to maximum 5.1 seconds. A short pulse (0.3 sec) brings the dimmer from zero to maximum in 2.5 seconds.

The maximum value of the dimmer can also be set between 20% and 100%. The output can also be dimmed automatically aft er a set time from 1 second to 255 minutes. If the dimmers are controlled via a mood, the increasing and lowering time can be independently time from 2.5 seconds to 20 minutes.

The Stand-Alone dimmers can be set in such a way that the latest dimmer setting is memorised, which means that the next time the dimmer is activated it automatically goes back to the latest setting.

	DIM02SA/500U	DIM04SA/500U	ANR04SA
	Universal dimmer (phase cuts, dimmable energy saving lamps, dimmable LEDs), can be used both Stand-Alone and in a Qbus Full installation. Mixed charge is not recommended.		Can operate 4 analogue dimmers (0/1-10V or PWM) of 4 relays or a combination of both. Every analogue output controls a relay contact that switches off when dimmer is set to 0%. In Stand-Alone mode the outputs are set to 0-10V dimmer mode as standard with minimum dimming level 10%.
Power supply	230VAC, +/-10%, 50Hz		230VAC, +/-10%, 50Hz
Max. fuse	16A/2P		16A/2P
Bus charge (full charge)	10mA at rated current 13.8V		10mA at rated current 13.8V
Max. own use	4.5VA		4.37VA
Internal fuse	500mAT single-phase		500mAT single-phase
Breakdown voltage	Tested at 3kV		Tested at 3kV
Casing	DIN rail		DIN rail
Type	OUT1 - OUT2: dimmable outputs 500VA/output. In Stand-Alone mode the outputs are set to conventional transformers as standard with minimum dimming level 10%.	OUT1 - OUT4: dimmable outputs 500VA/output. In Stand-Alone mode the outputs are set to conventional transformers as standard with minimum dimming level 10%.	OUT1-OUT4: analogue dimmer mode or ON/OFF mode can be set with push buttons on the module in Stand-alone, or via configuration software in Qbus Full. In Stand-Alone mode the outputs are set to 0-10V dimmer mode as standard with minimum dimming level 10%.
Maximum charge	Incandescent lamps, halogen lamps with electronic transformer: max. 500VA per output. Halogen lamps with magnetic transformer: max. 400VA per output. Dimmable 230V LEDs and energy saving lamps: max. 100VA per output.		Resistive charge (cosϕ = 1) 16A at 230VAC / 30VDC. Inductive charge (cosϕ = 0.4; L/R = 7ms) 8A at 230VAC / 30VDC.
Minimum charge	Incandescent lamps, halogen lamps with electronic transformer: min. 10VA per output. Dimmable 230V LEDs and saving lamps: min. 10W per output.		-
Maximum power	-		16A
Maximum switching voltage	-		250 VAC, 125 VDC
Duration	-		20 million mechanical operations
LED indication	Green = power. Red = 2 seconds on start-up, then during programming. This LED also flashes during selection of the load and minimum dimming level in Stand-Alone mode. Orange LED OUT: Continuously lit = output active. Orange LED OUT: Flashing = output in safety mode (overload, overheating). Red LEDs Error 1-4 lit = overload or short circuit.		Green LEDs: 230V/bus present, Red LED: Flashing during start-up and programming, Orange LEDs: Lit if output active, flashing (Dim0xSA only) in case of error (overload, short circuit, overheating).
Manual control	To select the respective charge and minimum dim level. See the leaflet or the technical sheet of the module concerned.		To select the respective charge and minimum dim level. See the leaflet or the technical sheet of the module concerned.
Number of inputs	3 potential-free contacts, including All On/ All Off Out-input. With additional 5-24VDC feed also LED indication of the inputs.	5 potential-free contacts, including All On/All Off Out-input. With additional 5-24VDC feed also LED indication of the inputs.	5 potential-free contacts, including All On/All Off Out-input. With additional 5-24VDC feed also LED indication of the inputs.
Input function	Push button: open if not active (e.g. door bell). Standard setting in Stand-Alone mode. Normal Open: open if inactive. Normal Closed: closed if inactive.		Push button: open when inactive (e.g. door bell). Normal open: open when inactive. Normal Closed: Closed when inactive. Switch: on/off function.
Dimensions	6 modules (107mm)	9 modules (161mm)	6 modules (107mm)

	ANA01	QDM01	QDG04SA	QDBC02SA	CVD04SA	DEC45/DMX
	Analogue dimmer modules (0-10V)	Qbus DALI Master	Qbus DALI four group dimmer	Dual-channel Dali Broadcast dimmer module. Suitable for either Stand-Alone use or in combination with a Full Qbus installation.	45 mm (H) x 160 mm (W) x 21 mm (D)	Four-channel low frequency dimmer for (RGBW) LED strips with 12V-48V constant current source.
Power supply	Bus feed	230Vac (max. 0,2A)	230VAC (max. 0.2A)	1.15VA unloaded. + 0.032VA per connected DALI unit. Or 3.2VA maximum.	12-48VDC + 5%	12-36V
Max. fuse	-	-	16A/2P	16A/2P	Depending on the power supply	Based on power supply used
Bus charge (full charge)	15mA at rated current 13.8V	10mA	10mA at 13.8V rated voltage	20mA (peak) at 13.8V rated voltage	8mA at 13.8V rated voltage	-
Max. own use	-	10mA	-	1.15VA unloaded + 0.032VA per connected DALI unit. Or 3.2VA maximum.	13mA at 12V 10mA at 24V 8mA at 48V	-
Internal fuse	-	-	-	Self-resetting	-	-
Breakdown voltage	-	-	-	3kV	3kV	-
Casing	Plastic casing non DIN rail	Plastic, self-extinguishing in accordance with UL94-V0	DIN-rail	DIN-rail	DIN-rail	-
Type	1 selectable output (via System Manager Software): 0-10V (sourcing - max 5mA) or 1-10V (sinking - max 100mA)	DALI-bus output can operate 64 separate DALI-addresses and 16 groups	-	DA1 and DA2: DALI broadcast buses. All DALI fixtures on the same DALI bus will respond identically.	OUT1-4: PWM outputs on cathode (-) with common anode (+). Outputs can be set as individual dimmers, Warm White/Cold White dimmer, RGB dimmer or RGB+ dimmer.	OUT1-4: PWM outputs on cathode (-) with common anode (+). Outputs can be set up as individual dimmers, Warm White-Cold White dimmer, RGB dimmer, RGB+ dimmer.
Maximum charge	Max. 5mA	64 DALI-addresses. Max. sink current 250mA.	Max. 64 DALI fixtures in 4 different DALI groups distributed over 1 DALI bus	A maximum of 64 DALI units may be connected for the entire module	24V 8A or 48V 4A per channel	24V 8A per channel
Minimum charge	-	-	-	-	-	-
Maximum power	-	-	-	-	4x8A	4x5A
Maximum switching voltage	-	-	-	-	48VDC	36V
Duration	-	-	-	-	-	-
LED indication	Green LEDs = feed of respectively DALI-bus and Qbus. Red LED = 2 seconds during start-up and during programming.	Green: Power OK (top) / Bus OK (bottom), Red: Status LED 2 sec on start-up and then during programming. Orange: Lit = output active; Flashing = error (overload, short circuit).	Green: Power supply OK (top)/Bus OK (bottom, only if using bus system with CTD) Red: Status LED; 2 seconds on start-up and during programming. Orange: Output active; if all four orange LEDs are flashing = error due to overload or short circuit in	Green: Power OK (top) / Bus OK (bottom), Red: Status LED 2 sec on start-up and then during programming. This LED flashes when selecting settings (see "Manual Operation"). Orange: Lit = output active; Flashing = error (overload, short circuit).	Green: Power OK (top) / Bus OK (bottom), Red: Status LED 2 sec on start-up and then during programming. This LED flashes when selecting settings (see "Manual Operation"). Orange: Lit = output active; Flashing during configuration = dependent on selected mode. Flashing during operation = Sync mode.	LED display
Manual control	-	-	To create groups within one DALI circuit. Refer to the included leaflet or the technical specifications for the module.	To select the minimum dimming level and memory function usage. Please consult the included leaflet or technical data sheet for the module.	To switch between various modes (Individual dimmer channels, Warm White/Cool White, RGB mode, RGB+ mode), memory function on or off. Please consult the technical data sheet for the relevant module.	-
Number of inputs	-	-	5 potential-free contacts, including All On/All Off input. With Eco relay for optimised energy savings	3 potential-free contacts including All On/All Off input. With LED indicators for the inputs if provided with additional 5-24VDC power.	5 potential-free contacts, including All On/All Off input. With LED indicators for the inputs if provided with additional 5-24VDC power.1 Sync input for synchronisation with other CVD04SA modules.	DMX
Input function	-	-	-Push button: status change on pulse. Standard setting in Stand-Alone mode. - - Regularly Open: Open when inactive. - Regularly Closed: Closed when inactive.			-
Afmetingen	51mm (H) x 47mm (B) x 14mm (D)	4 modules (71mm)	6 modules (107mm)	4 modules (71mm)	6 modules (107mm)	45 mm (H) x 160 mm (W) x 21 mm (D)
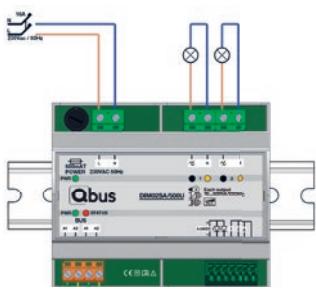
Two channels (Stand-Alone) universal dimmer

Product code: DIM02SA/500U

- Dims 2 10-500VA circuits
- For leading or trailing edge dimming, dimmable
- CFLs, dimmable LEDs.
- Also suitable for Stand-Alone use (without Controller)
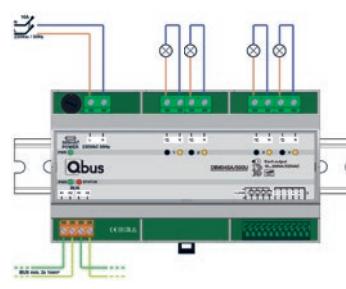
Four channels (Stand-Alone) universal dimmer

Product code: DIM04SA/500U

- Dims 4 10-500VA circuits
- For leading or trailing edge dimming, dimmable
- CFLs, dimmable LEDs.
- Also suitable for Stand-Alone use (without Controller)
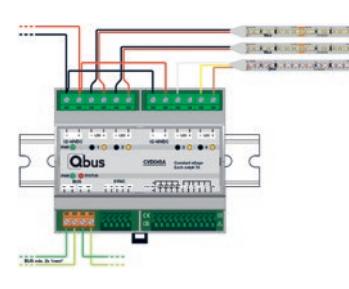
Four-channel (Stand-Alone) high frequency dimmer for LED strips with 12V-48V constant current source

Product code: CVD04SA

- With 4 outputs for RGBW dimming LED strips at 2 KHz
- No stroboscopic effect and consistent colour even at low dimming levels
- Dimmer can be set to dim 4 individual LED strips (all outputs independent), Warm White/ Cold White (2 combined outputs), RGB (3 combined outputs) or RGBW (4 combined outputs)
- A 12V - 48V power source can be used per two channels
- Also suitable for Stand-Alone use (without Controller)
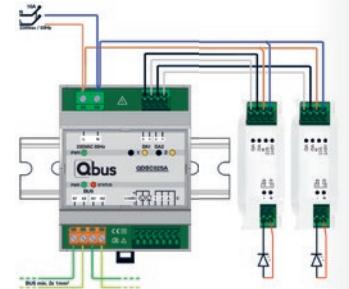
Qbus DALI broadcast module

Product code: QDBC02SA

- Dims 2 DALI lighting circuitswithout programming
- Dims up to 64 DALI units distributed over 2 DALI circuits
- Control using standard push buttons, including All Off and Panic button
- Also suitable for Stand-Alone use (without Controller)
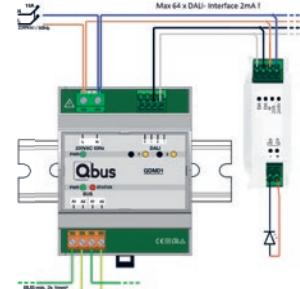
Qbus DALI Master with 1 DALI bus

Product code: QDM01

- Power supply for DALI system
- DIN rail module connects up to 64 DALI fixtures to the Qbus system
- Easy address configuration of DALI fixtures and Qbus DALI sensors
- Up to 64 dimmer channels divided among 64 individual fixtures and 16 groups
- Control and visualisation using familiar Qbus control panels
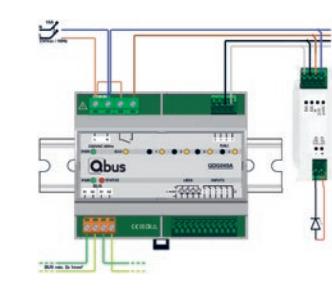
Qbus DALI 4 group dimmer

Product code: QDG04SA

- Up to 64 DALI units can be distributed over 4 groups using 1 DALI bus.
- 5 inputs for connection of standard push buttons without external power supply, including 1 All Off/Panic button.
- Manual set-up of DALI groups via standard push buttons connected to the module (without PC or software)
- Eco relay for optimised energy savings
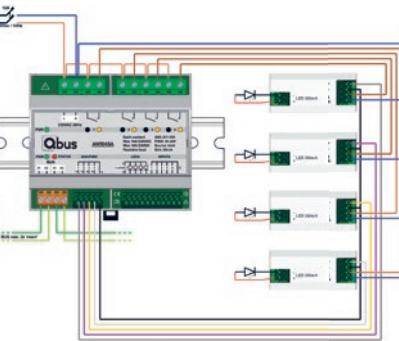
Four channels (Stand-Alone) analogue control module for dimming and/or switching

Product code: ANR04SA

- With 4 outputs suitable for use as analogue dimmers (0/1-10V or PWM) or as relay outputs
- Also suitable for Stand-Alone use (without Controller)
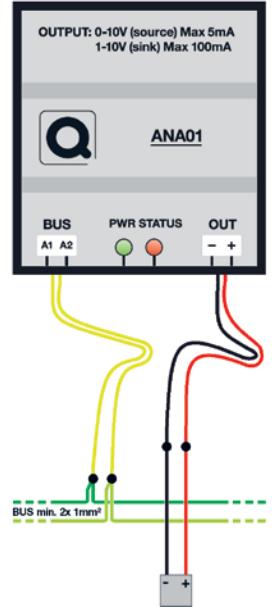
Decentralised one channel analogue dimmer

Product code: ANA01

- 0/1-10V dimmer with 1 output that is decentralised connected to the bus
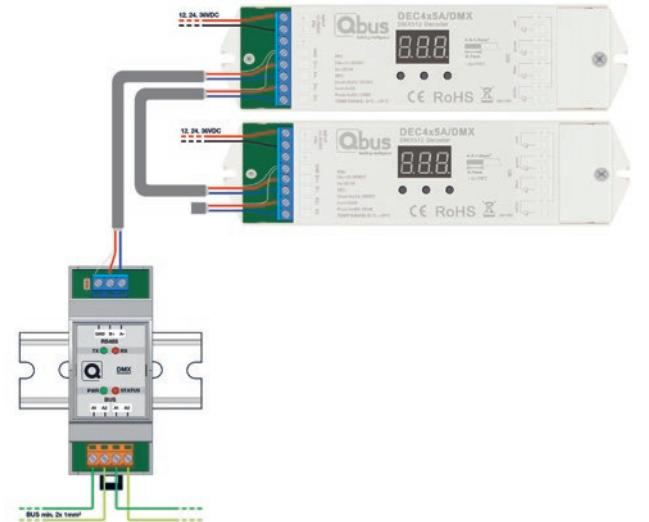
DMX Decoder

Product code: DEC45/DMX

- 12-36VDC power supply
- 4-channel PWM dimmer
- DMX protocol
- Can be combined with SER485

Input modules

Input modules can be used to connect external contacts such as standard switches, window and door contacts, leak detectors, liquid levels, garage doors, and the like to the Qbus system.We designed an Energy Counter Module and Energy Management Module to help with energy management.

Connect, measure, monitor, and control with Qbus

Input modules are available as a DIN rail version for installation in a mains fuse box or a compact version to fit inside a mounting box or junction box.

To help with your energy management, you can add our Energy Counter Module for external meters and our Energy Management Module to link the digital meter through the P1 port.

With the Energy Counter Module and Energy Management Module, you can measure the usage, output, and use smart control of heat pumps, EV chargers, and many other devices to coordinate your energy consumption and generation.

	INA02	INP02	INP04	ECM04	INP08	INP16	INP08/230
Power supply	Bus feed				230Vac, +/-10%, 50Hz		
Max. fuse	-				6A/2P		
Bus charge	25mA peak	10mA at rated current 13.8V. If external LEDs connected 15mA.			10mA at rated current 13.8V	20mA at rated current 13.8V	10mA at rated current 13.8V
Typical consumption	-				2,3VA		
Internal fuse	-				500mAT		
Breakdown voltage	-				Tested on 3kVAC		
Casing	Plastic housing for installation in flush-mounted box				DIN rail		
Number of inputs	2x 0-10V of 4-20mA	2 potential-free	4 potential-free	4 potential-free inputs for pulse meters	8 potential-free	16 potential-free	8 optically divided inputs (12VAC/DC or 230VAC)
Input function (can be configured with configuration software)	Push button: open when inactive (e.g. door bell). Normal Open: open when inactive. Normal Closed: closed when inactive. Switch: on/off function.						
LED indication	Green LED = feed. External LEDs can be connected on the inputs to display the status of the input.				Green LED = feed		
					Red LED = 2 seconds during start-up and during programming		
					Orange LED 1-8: if contact closed	Orange LED 1-16: if contact closed	Orange LED 1-8: if contact active
Dimensions	57mm (H) x 45mm (W) x 19mm (D)	41mm (H) x 40mm (W) x 12mm (D)			6 modules		9 modules
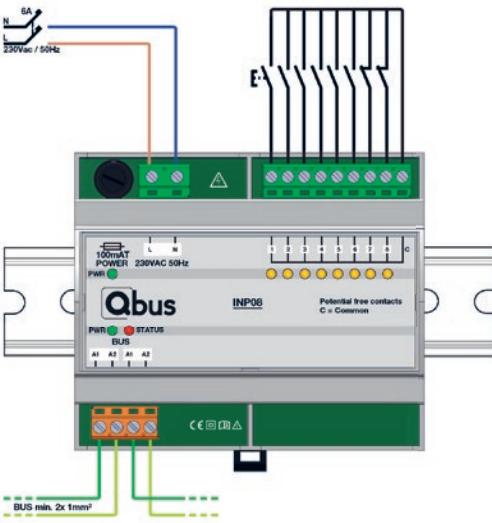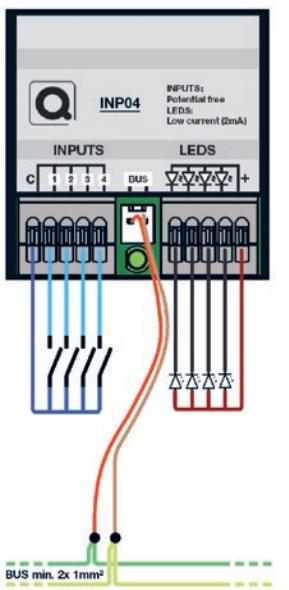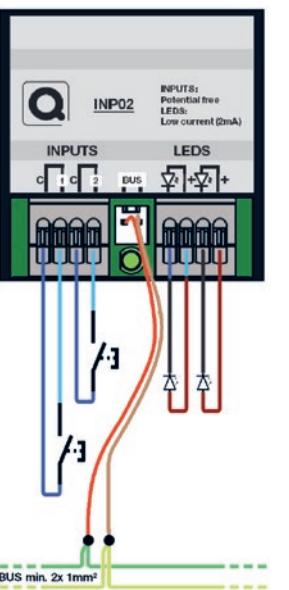
Decentralised module with 2 inputs

Product code: INP02

2 potential-free contacts (e.g. push buttons) and 2 LEDs can be connected to the INP02. These modules fit into an integrated box for switches and are an ideal solution to connect standard push buttons directly to the bus.

Decentralised module with 4 inputs

Product code: INP04

4 potential-free contacts (e.g. push buttons) and 4 LEDs can be connected to the INP04. These modules fit into an integrated box for switches and are an ideal solution to connect standard push buttons directly to the bus.

DIN rail module with 8 potential free inputs

Product code: INP08

On this DIN rail module 8 potential free inputs can be connected. Via the Qbus configuration software it can be decided which function every input must have - switch, push button, normal open or normal closed.
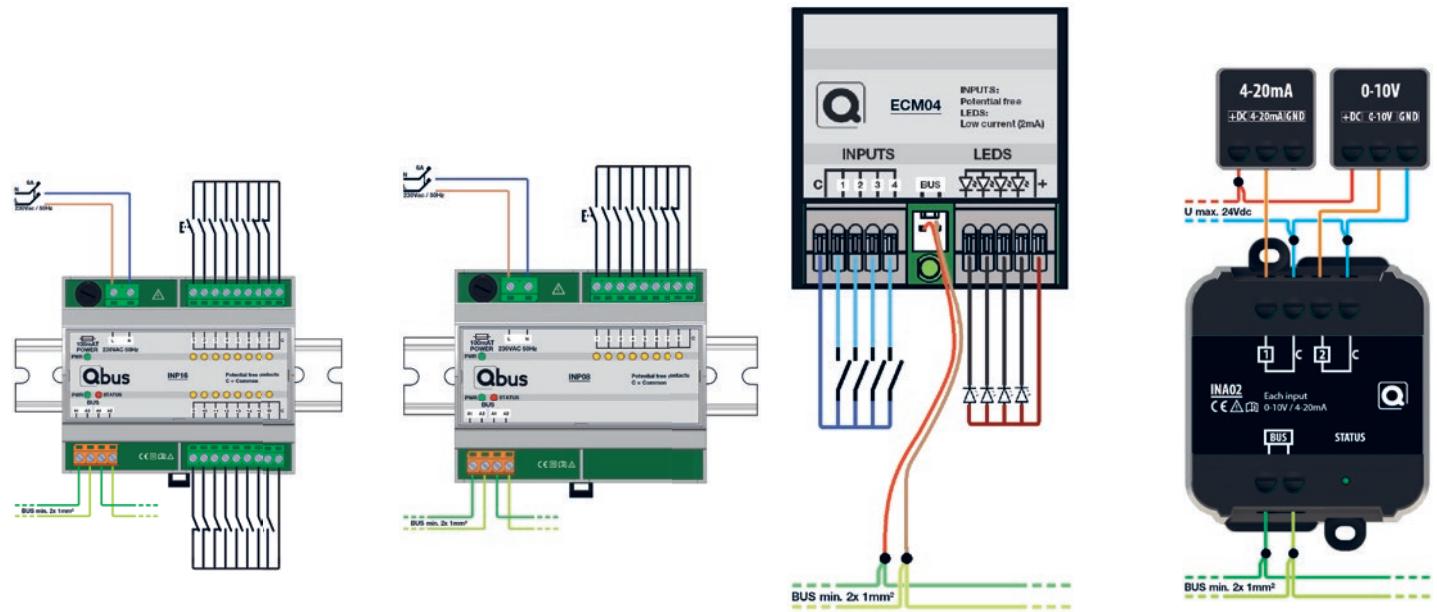
DIN rail module with 16 potential free inputs

Product code: INP16

On this DIN rail module 16 potential free inputs can be connected. Via the Qbus configuration software it can be decided which function every input must have - switch, push button, normal open or normal closed.

DIN rail module with 8 inputs under voltage

Product code: INP08/230

This DIN rail module is used to connect external contacts under voltage (12VAC/DC or 230VAC - e.g. automatic portals) to the Qbus system.

Energy Counter Module

Product code: ECM04

The ECM04 or Energy Counter Module is a module that adds the pulses it receives from a meter. It does not matter from which type of meter these pulses are transmitted as long as the contacts are not under voltage. The ECM04 can receive a pulse every 250ms and add them. The system can also create an alarm for a specific number of pulses, e.g., for a green power certificate for solar panels.

Analogue input module

Product code: INA02

This input module has two analogue inputs to connect sensors with a 0-10V or 4-20mA output signal to the Qbus system. A combination of the INA02 with liquid level sensors is also available. Refer to the "Sensors" chapter in this catalogue.

Interfaces

Various control systems are used for lighting only, such as DMX and DALI. But also HVAC systems sometimes speak their own language; and also wireless protocols must be able to speak with Qbus. By using the appropriate connection modules these can all be integrated in a Qbus system.

Connection to other systems

Via the various Qbus interface modules all types of systems can be linked to the Qbus system to achieve one fully integrated installation, fully controlled in the intuitive, user-friendly Qbus way.

|	SER485/DMX	SER485/Modbus	QWS/P04	SER485/Duco		QWI/EW	LQS06SA	UBIE	openHAB box
	The Qbus DMX interface enables max. 48 connections between Qbus outputs and 254 DMX channels	Module to integrate Qbus with Modbus applications. A number of Modbus-controlled devices are supported as standard, for the rest a customised configuration must be performed. See the technical sheet of the SER485/Modbus for further info.	The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in three directions - east - south - west, morning and evening). The Qbus weather station consists of the Qbus SER485-interface (QWS/P04), the weather station itself and the feed of the weather station (24V).	Via this connection module a link can be made between a Qbus installation and the Duco Comfort Plus System or the Ducotronic (Plus) System.		The Qbus Wireless Interface has a built-in Easywave chipset, enabling communication between wireless Easywave modules and Qbus modules	with a Luqas (LQS06SA) smart energy management module, you can easily control a heat pump, boiler and EV charging point simultaneously based on information from the digital meter and the calculated capacity charge	The Ubie Internet of Things gateway connects Qbus to KNX and to "Smart Devices" like Sonos, Hue …	The openHAB Interface is a device that establishes the connection between openHAB bindings and the Qbus System. Given the need for technical programming knowledge, this interface is only available through the Qbus support department.
Power supply	Bus feed	Bus feed	QWS/P04: bus weather station: 24V feed supplied	Bus feed		Bus power	230V	5VDC external feed (supplied)	
Bus charge	35mA at rated current 13.8V					20mA at 13.8V rated voltage	with active P1 port: 15mA	-	NA
Max own consumption	35mA at rated current 13.8V					20mA at 13.8V rated voltage	max 39mA (all relay outputs on)	400mA at 5VDC	
Casing	DIN rail					DIN rail	DIN rail	Synthetic material	
Type	DMX output. Per SER485/DMX maximum 12 RGBW-modes, 16 RGB-modes or 24 Warm White Cool White-modes are supported. If these modes must also be operated via the QbusCloud every mode is duplicated, so that per SER485/DMX maximum 6 RGBW-modes, 8 RGB-modes or 12 WWCW-modes can be controlled both via switches and via QbusCloud.	Various Modbus-operated devices (like Daikin RTD NET, RDT.RA, Toshiba…, Mitsubishi,...) are provided as standard and can be selected from a drop down box. For non-supported Modbus devices a specific configuration is required with intervention of Qbus.	The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in three directions - east - south - west, morning and evening)	Control of Duco Comfort Plus System or the DucoTronic (Plus) System		Interface between Qbus bus and Easywave wireless protocol. A maximum of 32 Easywave components can be wirelessly connected to 1 QWI module. Multiple QWI are possible per Qbus Controller.	The module has 6 functions: P1 readout, P1 splitting, relay control, charge post control, pulse measurement and Cloud visualisation and control. Through the installation wizard, the module can be easily installed.	For the connection and control of home and building automation systems (Qbus and KNX) to each other and to smart IP-based devices supported by Ubie. See www.ubiebox.com to check which devices are supported.	openHAB is an Open Source platform on which various smart devices and systems have established a 'binding' or integration. Technical programming knowledge is required in order to link different systems to each other via OpenHAB - Ubie is recommended for plug and play integration. See www.openhab.org to find out which systems you can link to Qbus.
Maximum Charge	-	Up to 32 slaves				-	-	-	-
Minimum charge	-					-	-	-	-
Led indication	Green = feed. Red = 2 seconds at start-up, the during programming. TX: flickers when sending data to the device. RX: flickers when receiving data from Qbus.					Dimensions Green: Power supply OK (top)/Bus OK (bottom, only if using bus system with CTD) Red: Status LED; 2 seconds on start-up and during programming. Orange: Output active	Green: Power supply OK (top) / Bus OK (bottom) Red: Status LED 2 seconds when booting and during programming.	Orange LED = Ubie is starting up. Blue LED = Ubie is connected to UbieCloud. Blue + red LED = Ubie is not connected to UbieCloud.	
Dimensions	2 modules (36mm)		QWS/P04 module: 2 DIN modules (36mm). Weather station 77mm (H) x 96mm (W) x 118mm (D). Power supply (25mm wide)	2 modules (36mm)		2 modules (36mm)	62mm x 90mm x 107mm	110mm x 110mm x 35mm	

Qbus - DMX connection module

Product code: SER485/DMX

The Qbus DMX interface allows you to control any DMX devices (spots, moving heads, LED panels, LED strips, ...) through the Qbus system. Choose the desired colour via a colour wheel on the Cloud, play a "film" with colour transitions or through a Qbus switch, or let your RGBW-strips dance to the Party mood.
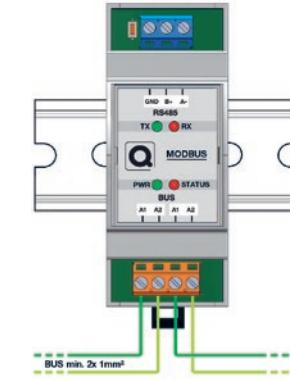
Qbus - Modbus connection module

**Product code: SER485/Modbus**

Module to integrate Qbus with devices that have a Modbus (SER485) portal. The Modbus data of various devices (Daikin, Toshiba, Mitsubishi, Fujitsu, Priva, Robur) are integrated as standard in the Qbus module, for the rest the code must be added by Qbus. See the technical sheet of the SER485/Modbus for further info.

Qbus weather station

Product code: QWS/P04

The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in west, east, south and north direction). Prevents overheating by automatically closing screens on the sunny side, or closes your sun awning if it is too windy. View all this on Qbus Control.
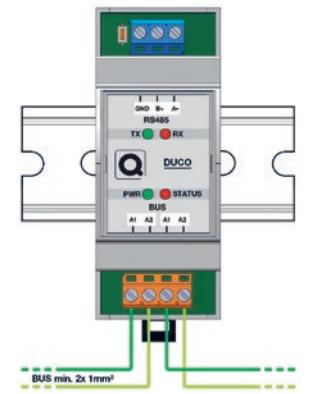
Qbus - Duco connection module

Product code: SER485/DUCO

Via this connection module a link can be made between a Qbus installation and the Duco Comfort Plus System or the Ducotronic (Plus) System. Both Duco systems provide zone-regulated outflow of polluted and/or humid air via a valve system and can be seamlessly integrated in your Qbus installation through the 2-wire bus cable.
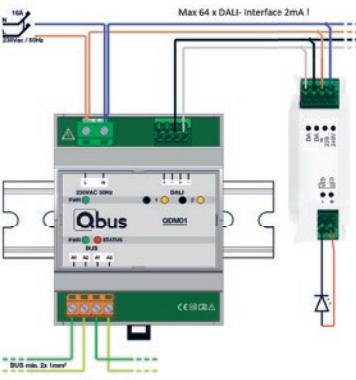
Qbus DALI Master

Product code: QDM01

Use the Qbus DALI Master with one DALI(2) bus to easily configure and assign addresses for DALI(2) devices in System Manager III, without additional DALI software or interfaces. The QDM01 supports up to 64 DALI(2) devices.
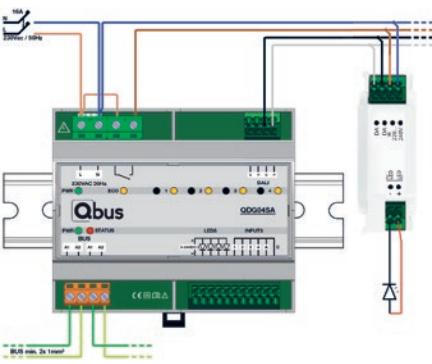
Qbus DALI 4 group dimmer

Product code: QDG04SA

With this Qbus DALI group dimmer, you can easily control up to 4 lighting groups on the same DALI bus.

The module is suitable for both Stand-Alone operation and use with a Qbus controller. The QDG04SA supports up to 64 DALI(2) units distributed over 1 to 4 groups.
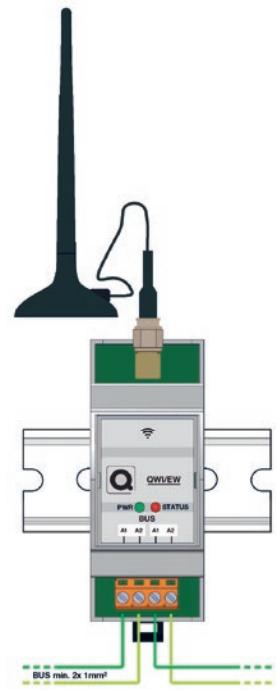
Qbus Wireless Interface

Product code: QWI/EW

• QWI connects the wired Qbus system to wireless protocols QWI/EW connects Qbus to Easywave components
• Available Qbus Easywave components: switching modules, switches, window and door contacts, sensors, alarm buttons.
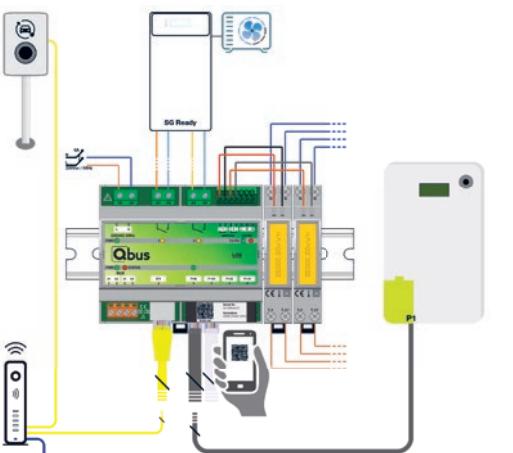
Luqas, Smart energy management module

Product code: LQS06SA

With a Luqas smart electricity manager (LQS06SA), you can use the digital meter to read and visualise your energy loads and control them in a smart manner. You can use Luqas to configure an EV charging point, heat pump or boiler to be less active during peak times or buffer the energy generated by your solar panels. The module comes with a year of free cloud visualisation. This can be easily extended in following years via Qbus Control.
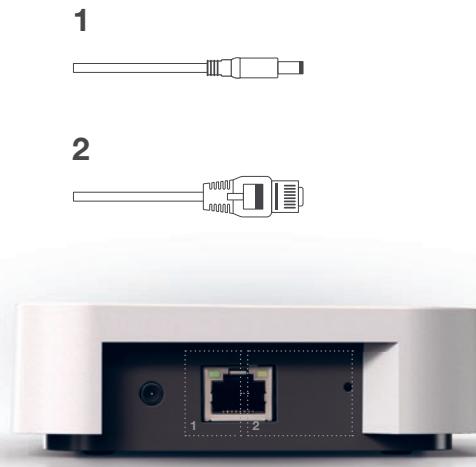
Ubie

Product code: Ubiebox

Ubie connects your home and building to automation systems like Qbus and KNX with smart, IP-based devices like Sonos, SIP video, IP cameras, Google Home, Alexa, Hue, etc ... Check www.ubiebox.com to see which smart devices are supported.

openHAB interface

Product code: openHAB

openHAB is an Open Source platform on which various smart devices and systems have established an integration (see www.openhab.org for a list). Technical programming knowledge is required in order to link these different systems to Qbus via OpenHAB - Ubie is recommended for plug and play integration. The openHAB interface is only available through the Qbus support department.

2.7

Switches

The Tastu, Niko, Bticino, Lithoss, JUNG, CJC or SUMUM buttons of the Qbus smart switches hide a print board full of digital intelligence. With the four push buttons alone the switch can transmit up to eight commands to the controller. The smart switches have standard colour LEDs of which the colour can be chosen or put together by you, and is also available with integrated motion meter, light sensor, temperature sensor or a combination of these options.

Optimal balance between intelligence and cost

Besides the smart switches, standard push buttons can also be connected via central and decentralised input modules, or even directly to the Qbus Stand-Alone modules.

The combination of "smart" Qbus switches and the standard push buttons provides the desired balance between the necessary functions and the cost of your installation.

	Tastu	Niko	Bticino	Lithoss	CJC	Jung	SUMUM
Power supply	Bus feed						
Bus charge	1-button 10mA, 2-buttons 15mA, 4-buttons 20mA at rated current 13.8V	1 and 2-button versions: 4-button version: 10mA at 13.8V nominal voltage		10mA at rated current 13.8V			1-button 6mA, 2-button 9mA, 3-button 12mA, 4-button 14mA (max. consumption for all LEDs white)
LED indication	RGB colour LEDs: colour set via Qbus configuration software	RGB colour LEDs: colour set via Qbus configuration software			White LED behind buttons, 1 RGB LED central for indication HVAC programme	RGB colour LEDs: colour set via Qbus configuration software	RGB colour LEDs: Set colour via Qbus Configuration Software
Number of controls	1 buttons: 1 interface with 1 RGB LED for control of one Qbus output 2 button: 2 interfaces with 2 RGB LEDs for the control of 4 Qbus outputs (two additional outputs through the second page). 4 button: 4 interfaces with 4 RGB LEDs for the control of 8 Qbus outputs (four additional outputs through the second page).	-The Niko SWC0102NB module is supplied without pushbuttons. A 1-button or 2-button Niko snap-fit finishing set is available for use with 1 or 2 buttons. - The Niko SWC04 includes 4 Niko buttons. All Niko smart switches feature RGB LEDs behind each button. The dual-button version can control 4 Qbus outputs, and the 4-button version can operate 8 Qbus outputs (additional outputs via the second page).	The Bticino SWC04 includes 4 buttons with RGB LEDs. These can operate 8 Qbus outputs (additional outputs via the second page).	1 button with or without 1 RGB LED for control of one Qbus output 2 buttons with or without 2 RGB LEDs for the control of 4 Qbus outputs (two additional outputs through the second page). 3 buttons with or without 3 RGB LEDs for the control of 6 Qbus outputs (three additional outputs through the second page). 4 buttons with or without 4 RGB LEDs for the control of 8 Qbus outputs (four additional outputs through the second page).	1 button: 1 interface with 1 RGB LED for control of one Qbus output. 2 button: 2 interfaces with 2 RGB LEDs for the control of 4 Qbus outputs (two additional outputs through the second page). 4 button: 4 interfaces with 4 RGB LEDs for the control of 8 Qbus outputs (four additional outputs through the second page).	Qbus provides the JUNG pushbutton module (4008TSM) with integrated Qbus print board for connection to two-wire bus. On the 4008TSM various styles JUNG buttons and cover frames (AS500, A, CD500, LS) fit. These buttons and cover frames are not supplied but must be ordered separately from the respective JUNG sale channels.	1-button: 1 touch area with 1 RGB LED to operate one Qbus output. 2-button: 2 touch areas with 2 RGB LEDs to operate four Qbus outputs (two additional outputs via the second page). 3-button: 3 touch areas with 3 RGB LEDs to operate six Qbus outputs (three additional outputs via the second page) 4-button: 4 touch areas with 4 RGB LEDs to operate eight Qbus outputs (four additional outputs via the second page).
Version	1, 2 and 4-buttons black or white glass, optional with temperature sensor	- The 1 or 2-button versions are supplied without pushbuttons. A Niko snap-fit finishing set with lens is available for single (version XXX-32002) or dual (version XXX-32004) electronic pushbuttons. With optional temperature sensor. - The 4-button version is supplied in the available Niko colours with optional temperature and/or motion and light sensors.	4-buttons in Bticino Light, Light-Tech, Living, optional with temperature sensor. 3-buttons version with motion and light detector.	See Lithoss catalogue. The 2 and 4-button versions have an optional temperature sensor.	LOLA only. 4-button version has an optional temperature sensor.	See technical sheet SWC04/Jung. The basic module 4008TSM is available with temperature sensor as option.	See SUMUM catalogue. The 2, 3 and 4-button versions have an optional temperature sensor.
Dimensions	86mm x 86mm	71mm x 73mm (incl. frame). Incl. finishing set for 4-fold smart switch, excl. finishing set for single and dual versions.	44mm x 47mm (without frame, without cover frame. These are not supplied).	Depending on selected version. See respective catalogues.		47mm x 44mm	Depending on selected version. See SUMUM catalogue.
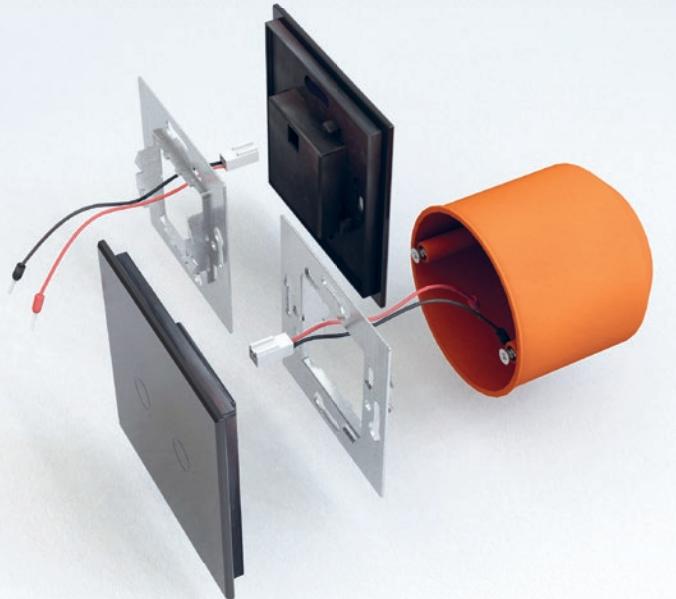
Tastu® switches

Product code smart switches: SWC0XX/GX
Product code Stand-Alone switches: SWC0XSA/GX

The Tastu® glass switch works on touch sensors concealed in the glass plate. With these capacitive touch surfaces users can control all the technologies in any given room, floor or building. These switches are fingerprint-proof: a special coating prevents smudging the glass.

Tastu® switches exist in both smart switch - optional with integrated temperature sensor (for direction to the Qbus bus) and in Stand-Alone push button version.
This Stand-Alone version of the Tastu® can be used with the Qbus Stand-Alone modules and and other impulse relays.
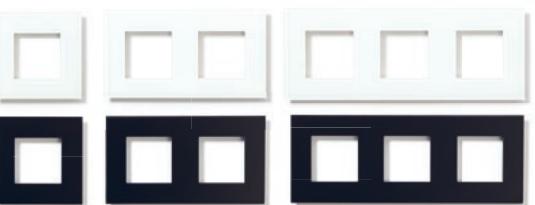
Cover plates

Tastu® cover plates are both contemporary and timeless, functional and stylish like the Tastu® switches. Like the switches they give a slightly floating feeling for the distance between the wall and the glass. The cover plates are available for Niko switch equipment and for System 55 (Schneider/Merten, Gira, JUNG) switch equipment and always in single, double and treble horizontal finishing.

Tastu® Display

The Tastu® Display has an integrated colour screen to show what you are controlling. Four outputs can be controlled directly, and scrolling down offers 16 additional outputs. The integrated temperature sensor allows you to use the Tastu® Display as a thermostat and the proximity sensor ensures that the screen only lights up during operation.

Smart switch	Option temperature sensor	Implementation
1-button (SWC01/XX) 2-button (SWC02/XX) 4-button (SWC04/XX)	2-button (SWC02T/XX) 4-button (SWC04T/XX)	XX = version GB (Glass Black) of version GW (Glass White)

Stand-Alone	Implementation
1-button (SWC01SA/XX) 2-button (SWC02SA/XX) 4-button (SWC04SA/XX)	XX = version GB (Glass Black) of version GW (Glass White)

Stand-Alone	Implementation
Single - horizontal (ADPTASTU/N1XX) Double - horizontal (ADPTASTU/N2XX)) Triple - horizontal (ADPTASTU/N3XX)	XX = version GB (Glass Black) of version GW (Glass White)

Qbus switch in Niko version

Product code: SWC04X/XXX, SWC0102/XXX

The Qbus print plate is hidden behind the Niko push buttons. Easy to connect to the Qbus bus, optionally with integrated temperature sensor, motion detector, light sensor or a combination of the above. All the push buttons have adjustable colour LEDs. The handy second page makes it possible to control 8 outputs in total with a single 4-button switch. These smart switches are supplied with buttons and frame, but without cover frame.

Smart switch	Option temperature sensor	Option motion and light detector	Option temperature, motion and light detector	Implementation
4-button (SWC04/XX)	4-button (SWC04T/XX)	4-button (SWC04M/XX)	4-button (SWC04MT/XX)	XXX = Niko colour. 101, 122 colours available as standard; other colours on request
4-button without a finishing set. (SWC04/NNB) 1- and 2-button without finishing set (SWC0102/NNB)	1- and 2-button without finishing set (SWC0102/NNB)	-	-	without a finishing set

Qbus switch in Bticino version

Product code: SWC04X/XX

The Qbus print plate is hidden behind the Bticino push buttons. Easy to connect to the Qbus bus, optional with integrated temperature sensor, motion detector, light sensor or a combination of the above. All the push buttons have adjustable colour LEDs. The handy second page makes it possible to control 8 outputs in total with a single 4-button switch. The version with motion and light detector has 3 buttons, and can operate 6 outputs (3 on the second page). These smart switches are supplied with buttons, without frame, and without cover plate.

Smart switch	Option temperature sensor	Option motion and light detector	Option temperature, motion and light detector	Implementation
4-buttons (SWC04/X(X))	4-buttons (SWC04T/X(X))	3-buttons (SWC04M/X(X))	3-buttons (SWC04MT/X(X))	X(X) = Bticino colour N (white), NT (grey), L (black)

Qbus switch in Lithoss version

Smart switches

Lithoss push buttons are available with a built-in Qbus circuit board and optional temperature sensor, motion detector, light sensor, or a combination thereof. Such push buttons can be connected in the same way as any other Qbus smart switch. Thanks to a handy second page, one 4-button switch can control a total of 8 outputs.

The smart Qbus switch in Lithoss version is available with 1, 2, 3 or 4 push buttons, and in any possible Lithoss finishing. Versions with integrated temperature, motion and light detectors are also available. Check the Lithoss catalogue and website for models and product codes.

Qbus switch in CJC version

Smart switches

The CJC Smart Lola switch has an integrated Qbus circuit board. This switch has adjustable colour LEDs. Via the second page it's possible to control up to 8 outputs through the four buttons.

The Smart LOLA switch is available with 1, 2, 3 or 4 pushbuttons and an optional temperature sensor. See the CJC catalogue for finishes and product codes.

Qbus switch in SUMUM version

Smart switches

In SUMUM switches intelligent use of various woods and metals goes hand in hand with the built-in Qbus intelligence. The SUMUM switches also have an integrated Qbus chip, enabling a plug & play connection to the Qbus two-wire bus. These smart switches also feature RGB LED indicators behind the pushbuttons, two pages for the control of many different outputs and an optional integrated temperature sensor so they can be used as a room thermostat.

Qbus switch in JUNG version

Product code: SWC04X/JNB

The smart Qbus switch in JUNG version is a basic component (the 4008 TSM "pushbutton module") with integrated Qbus print plate for connection to the Qbus two-wire bus. Various styles of JUNG buttons and cover frames (AS500, A, CD500, LS), and 1-, 2-, 3- and 4-button finishing sets suit this module. These buttons and cover frames are not supplied but must be ordered separately from the respective JUNG sale channels.

Via the JUNG Graphic Tool it is also possible to have symbols printed on the push buttons. The Qbus smart switches version JUNG are also available with integrated temperature sensor.

2.8
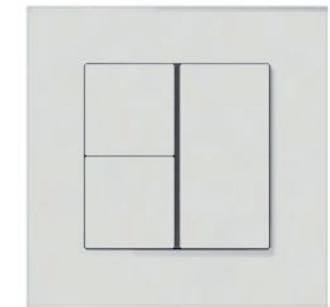
Sensors

Qbus has an extensive range of sensors for the measuring of motion, light, temperature, air quality,... Based on these readings outputs can be controlled to regulate e.g. lighting, heating and cooling based on presence, the ventilation in function of air quality, or save energy by applying daylight management.

Integrated in switches or stand-alone

The Qbus motion, light and temperature sensors are both available as stand-alone, or can be integrated in switches, the air quality sensors are only available stand-alone.

	SEN01T	SEN01/NTC	SEN01M/X	SEN04ML/RMW	MDI	SEN04MLT/OUT	AIR01	INA02 & SENPACK/1LEVEL - SENPACK/2LEVEL	QWS/P04	QDSEN & QDSEN/HB
Power supply	Bus feed			Bus feed			24VDC power supply		QWS/P04: bus weather station: 24V feed supplied	DALI power via DALI bus
Bus charge	8mA at rated current 13.8V	8mA at rated current 13.8V		15mA at nominal voltage 13,8V	9mA at nominal voltage 13,8V	35mA at rated current 13.8V	25mA (peak) at nominal 13.8 V	30mA at nominal tension 13,8V		Attention – bus load on DALI bus QDSEN/HB: 16mA (8mA quiescent, 16mA during detection) QDSEN: 10mA (7.5mA quiescent, 10mA during detection)
Function & specification	Digital temperature sensor on the Qbus two-wire bus. Measures at 0.5°C resolution and 1°C accuracy in an adjustable range of 63.5°C to -30°C and 93.5°C	NTC temperature sensor with 55CM wire on the Qbus two-wire bus. Measures at 0.5°C resolution and 1°C accuracy in an adjustable range of 63.5°C to -30°C and 93.5°C	Motion and light sensor on the Qbus two-wire bus. The motion detector has a diameter of only 9mm, and a detection range of 5 metres in an angle of 100°. Via the Qbus configuration software both a "First" detection level (quantity of motion before it is detected) and a "Maintenance" level (quantity of motion to continue detecting) must be set. Via the light sensor detection can be combined with light level.	Motion detector with adjustable view angle (25°) for ceiling assembly. Integrated light sensor. Module is fed by the Qbus two-wire bus. With installation at 2.4m high the module has a detection range of 6 metres. Via the Qbus configuration software both a "First" detection level (quantity of motion before it is detected) and a "Maintenance" level (quantity of motion to continue detecting) must be set. Via the light sensor detection can be combined with light level. Four separate outputs can be controlled according to motion and/or light level.		Motion, light and temperature sensor IP55 for outdoor installation. The sensor can be directed 90° up or 40° down and 90° left or right. The module is suitable for either ceiling or wall mounting. The module is powered via the Qbus two-wire bus. When flush-mounted at a height of 2.4 metres, the module has a sensing range of 12 metres. The Qbus Configuration Software can be used to set both a "Trigger" detection level (amount of motion required to trigger detection) and a "Maintain" level (amount of motion required to continue the detection). With the light sensor, detection can be linked to the amount of light. Four individual outputs can be controlled by the degree of motion and/or light. With built-in temperature sensor.	The air quality sensors contain a CO2 sensor, humidity sensor, temperature sensor or a combination of these. Based on the measured values by these sensors the ventilation system can be controlled and the optimal air quality can be obtained without unnecessary energy loss. Resolution 16ppm CO2, 0,4% RH, 0,5°C accuracy + 75ppm CO2, + 3% RH, + 1°C.	In this package, the input module INA02 is combined with a Qbus 4-20mA liquid level meter to detect levels of water or fuel between 5cm and 300cm. The measured values can be converted to a 0-100% value (dimmer mode), used in thermostat mode (temperature sensors) or, if more precise data is required, a universal mode is available.	The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in three directions - east - south - west, morning and evening). Resolution wind sensor 0.1m/s, Temperature 0.1°C. Accuracy wind sensor + 15-22%, temperature + 1.5°C, luminosity + 35%.	Combined passive infrared (PIR) motion and light sensors. QDSEN & QDSEN/HB configuration takes place via the QDI configuration: when assigning DALI addresses via the QDI, the connected QDSEN & QDSEN/HB sensors appear as inputs. The Qbus Configuration Software (System Manager) can specify activation of the relevant output at a specific degree of light or motion, or a combination of these

QDSEN: At an installation height of 2.5 metres, the QDSEN has a sensing range of 8 metres in diameter for detection of motion, and 4 metres in diameter for detection of a presence.

QDSEN/HB: At an installation height of 15 metres, the QDSEN/HB has a sensing range of 40 metres in diameter. |
| **Version** | Stand-alone sensor. The pre-drilled Niko blind plates are available separately to finish the SEN01T. | Stand-alone sensor | Available as separate sensor in white (SEN01MW) or black (SEN01MB) version. Optional pre-drilled Niko blind plates are available as finishing for the SEN01MW. These are also available in a white (SEN01MW/RMW) or black (SEN01MB/RMB) metal frame for ceiling installation, with either coil or leaf springs. Available in white (SEN01MW/TMW) or black (SEN01MB/TMB) metal frame for surface mounting to the ceiling. | Integrated in white round metal frame with springs for ceiling assembly | Available in Niko version 100, 101, 121 and 122, and in Bticino version N,L,NT. Including frames, excluding cover frames. | Surface mounted version. Available in black (SEN04MLT/OUTB) and white (SEN04MLT/OUTW) versions | AIR01CT: CO2 and temperature sensor AIR01CHT: CO2, humidity and temperature sensor AIR01HT: humidity and temperature sensor. Wall mounting. | SENPACK/1LEVEL: With one analogue input module (INA02) and one sensor or SENPACK/2LEVEL With one analogue input module (INA02) and two sensors. | The Qbus weather station consists of the Qbus SER485-interface (QWS/P04), the weather station itself and the weather station power supply (24 V) | Either surface or flush mounting |
| **Dimensions** | 24mm diameter x 30mm | 41mm (H) x 40mm (W) x 12mm (D) | SEN01MX: 23mm x 30mm x 30mm deep SEN01MX/RMX: 60mm diameter x 30mm deep SEN01MX/TMX: 60mm diameter x 40mm high | 80mm diameter x 65mm deep | Niko 73mm x 71mm. Bticino: 72mm x 73mm. | 74mm wide, 88mm high, 120mm deep | 110mm diameter x 27mm thick | 19mm (H) x 45mm (W) x 57mm (L) | QWS/P04 module: 2 DIN modules (36mm). Weather station 77mm (H) x 96mm (W) x 118mm (D). Power supply (25mm wide). | QDSEN: 102mm diameter x 59mm QDSEN/HB: 88mm diameter x 49mm x 63mm deep |

Design mini motion detector

Product code: SEN01M

The stylish detector SEN01M is a small motion detector that can be integrated in skirting boards, cabinets, walls, etc. or integrated in a metal frame. The SEN01M has an integrated light sensor and is available in black or white. For the version without frame pre-drilled Niko blind plates are available. Surface-mounted, available in white (SEN01MW / RMW) or black (SEN01MB / RMW) metal frames with spring or leaf springs for ceiling mounting.

Design mini motion detector	Version
Stand-alone detector (SEN01/MX) Detector in metal frame (SEN01MX/RMX) Pre-drilled Niko blind plate for stand-alone detector (CPL SEN01MW/101 or CPL SEN01MB/122) Sensor in metal frame surface mounted (SEN01MX/TMX)	X = white (W) or black (B) detector. With frame in white (W) or black (B) frame. White (/101) or black (/122) version.

Product code: SEN01MW

Product code: SEN01MB/TMB

Product code: SEN01MW/RMW/BL

Swivelling motion detector for wall mounting

Product code: MDI01

The MDI is a motion detector for indoor use, has an adjustable detector and an integrated light sensor and is available in Niko and Bticino design.

Swivelling motion detector for wall mounting	Version
Detector on Niko frame (MDI/XXX) Detector on Bticino frame (MDI/X(X))	XXX = Niko colour. Colours 101, 122 X(X) = Bticino colour N (white)

Swivelling motion detector for ceiling mounting

Product code: SEN04ML/RMW

The SEN04ML/RMW is a swivelling motion detector for indoor use in a white metal frame for ceiling mounting.

Motion, light & temperature sensor for outdoor use

Product code: SEN04MLT/OUTB and SEN04MLT/OUTW

A versatile detector for ceiling or wall mounting, for indoor or outdoor use (IP55), that detects temperature, light level and motion and operates outputs based on one or a combination of these measured values.

This sensor is available in both white (SEN04MLT/OUTW) and black (SEN04MLT/OUTB).

Temperature sensors

Product code: SEN01T / SEN01NTC

Stand-alone temperature sensors for easy and multi-functional integration. These sensors are fed by the bus and make the smart, zone heating control in a building extremely easy.

The SEN01T has a digital temperature sensor, and is available with pre-drilled Niko blind plates for assembly in an integrated box.

The SEN01NTC has a NTC sensor on a 55cm long cable. That sensor is ideal for use in floor heating or other measurements in which the sensor can be embedded.

Air quality sensors

Product code: AIR01

The air quality sensors contain a CO_2 sensor, humidity sensor, a temperature sensor or any combination thereof. Based on the values measured by these sensors the ventilation system can be controlled and the optimal air quality can be obtained without unnecessary energy loss.

Air quality sensors:

- Air quality sensor with CO_2 and temperature sensor (AIR01CT)

- Air quality sensor with CO_2, humidity and temperature sensor (AIR01CHT)

- Air quality sensor with humidity and temperature sensor (AIR01HT)

Qbus Weather Station

Product code: QWS/P04
The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in west, east, south and north direction). Prevents over heating by automatically closing screens on the sunny side, or closes your sun awning if it is too windy. View all this on the QbusCloud.

DALI-sensor

Product code: QDSEN

• Combined passive infrared
  (PIR) motion and light sensors
• Suitable for mounting at a
  height of 2.5m with a sensing
  range of 7m in diameter
• Either built-in or surface
  mount available
• Directly linked to DALI bus
  using QDI01 or QDM01

DALI-sensor

product code: QDSEN/HB

• Combined passive infrared
  (PIR) motion and light sensors
• With a maximum mounting
  height of 15m for a sensing
  range of 40m in diameter
• Either built-in or surface
  mount available
• Directly linked to DALI bus
  using QDI01 or QDM01

Liquid level sensor

**Product code: SENPACK/1LEVEL
              SENPACK/2LEVEL**

• Combination of analogue
  input module INA02 with one
  ortwo liquid level sensors.
• For water or fuel levels
• Detection range from 5cm to 300cm

FULL ACCESSORIES

LEDs for Led10 push buttons

Product code: LED10/NG

Green LED for Niko push button
on INP02/04 – 10 pcs.

DIN rail power supplies

Product code: CTDPWS

Extra DIN rail power supply
18 VDC/2.0A for CTD10, -40, -Max

CAN bridge

Product code: CABREL08-CON

• CAN bridge for 2x REL04SA
• CAN bridge for 2x ANR04SA
• CAN bridge for 1x REL08
• Cable cross section 1.5 mm²

Product code: REL08/SET10

CAN bridge for REL 08 module (10 pcs)

Bus cables

Product code: BUS10

Bus cables, set of 10 pcs

Displays

To control and visualise a Qbus system you can use your own tablets, smart phones, PCs or laptops. You can see and control your installation on any device from anywhere. We also have Qbus-specifi c displays, from room controllers to 21 inch design screens to which videophone can be linked.

Something for everyone

The ViZiR Room Controller is designed to control a room or floor. The Navigator Alu screens provide an intuitive and high-end overview of the whole home or building.

	DIS	UbieTouch	Navigator	Qframe	Qframe/USB
Power supply	Bus feed	POE or 24VDC	External feed 110-240VAC	-	230V
Bus charge	35mA at nominal voltage 13.8V	NA (not connected to bus; UTP cable required)	NA (not connected to bus; UTP cable required)	-	NA
Function & specification	Control panel with 2.4" OLED display, operation via capacitive buttons integrated in glass cover plate. The Tastu display has 4 direct outputs, and scrolls to control and visualise 16 additional outputs. The outputs are assigned via the Qbus Configuration Software. The Tastu Display has a built-in temperature sensor, enabling it to function as a room thermostat. An adjustable proximity sensor can allow the screen to light up only if someone is near.	Colour control panel for Ubie installations. 8" LCD screen, resolution 1280x800. 16.7M colours. Capacitive multi-touch touchscreen. High-fidelity audio with 2W amplifier and smart microphone for optimal audio recording makes the UbieTouch suitable as a videophone indoor monitor combined with SIP door entry units. Comes supplied with built-in frame for 2-module flush-mounted box.	The Navigator is a flush wall mount Windows 10 PC, finished in either a combination of aluminium and glass or just glass. The touch screens are TFT-LCD widescreen with dual capacitive touch. Navigator Touch Screens support EQOmmand software, allowing you to control and visualise your building and manage its energy consumption. Flush wall mounting will require separate mounting boxes.	The QFRAME109 (white or black) is a tablet holder consisting of an aluminium frame and a steel bracket which can be used to hold an iPad. This tablet holder is suitable for iPads of several generations: iPad 10th generation (2022) iPad Air 4th and 5th generation iPad Pro 1st, 2nd, 3rd and 4th generation	The QFRAME/USB is a 230V powered USB adapter for the Qbus QFRAME. This USB adapter can supply 12V (2.4A maximum) of power to various iPad versions. The power cord for the iPad (supplied with the QFRAME) is hidden behind the tablet using a built-in connection.
Version	In white or black glass	Available in white or black	Available in 10.2" - 15.6" or in 21.5" aluminium version. The 15.6" and the 21.5" are available as just a touch screen, a touch screen with a built-in extender (for easy linking to an external computer) or with a built-in mini PC. The aluminium versions are available in Brushed Aluminium or Black Aluminium with black glass, the Tastu versions in black or white glass. The Navigator Touch Screens feature a microphone and loudspeakers and can serve as a video doorbell screen	Available in white or black	
Dimensions	86mm x 86mm x 13.5mm	223.5 x 148.4 x 15.8 mm	10.2" Al version: cover plate 310mm x 186mm, flush mount box 276mm (W) x 174mm (H) x 70mm (D) 10.2" Tastu glass version: cover plate 301mm x 208mm, flush mount box 278mm (W) x 176mm (H) x 80mm (D) 15.6" Al version: cover plate 462mm x 272mm, flush mount box 455mm (W) x 253mm (H) x 80mm (D) 15.6" Tastu glass version: cover plate 472mm x 277mm, flush mount box 455mm (W) x 253mm (H) x 80mm (D) 21.5" Al version: cover plate 595mm x 340mm, flush mount box 587mm (W) x 327mm (H) x 80mm (D)	280 mm (H) x 195 mm (W) x 11 mm (L)	52 mm (H) x 45 mm (W) x 33 mm (L

Tastu Display

Product code: DIS

With the ViZiR Room Controller you can simply and intuitively control an exit, a room, a floor, a flat. The OLED screen shows what you control. The Tastu Display has 4 directly controllable outputs on the "home" screen. Based on the color of the RGB LEDs you can easily view the status of an output.

With sliders on the sides from the display you can go to the following outputs.

The Tastu Display has a temperature sensor on board, is fed and controlled via the bus and fits in a standard integrated box. The innovative, user-friendly technology of Qbus is now combined with minimalist design that fits into any decor.

- Tastu Display Room Controller Black Glass (DIS/GB)
- Tastu Display Room Controller White Glass (DIS/GW)

Navigator gamma touch screens in aluminium, glass and Tastu glass

Product code: NAV

High-quality design in aluminium, glass and Tastu glass. Available in 10,2 inch – 15.6 inch – 21.5 inch. The two largest versions are available as touch screen alone, as touch screen with integrated extender (to be connected easily to an external PC) and with an integrated box-PC. The version with the extender and the box-PC are interesting to enable the later connection - if necessary - of a heavier or more recent (box) PC and thus make the screens future-proof.

The Navigator Alu Touch Screens have a microphone and speakers and can also be used as a videophone screen. On the Navigator Alu Touch Screens the EQOmmand software can run, which allows you to control, visualise your building and manage the energy consumption.

UbieTouch

Product code: UbieTouch White / UbieTouch Black

With this 8 inch capacitive color touch screen, an Ubie installation can be operated intuitively. The screen has a built-in speaker and smart microphone for optimum sound recording and can therefore also serve as an indoor unit of a video-phone system (linked to an SIP external unit). The screen is POE powered and requires wired network.

The UbieTouch can also be placed on an optional metal holder.

Qframe

Product code: QFRAME109

The QFRAME109 (white or black) is a tablet holder consisting of an aluminium frame and a steel bracket which can be used to hold an iPad.

This tablet holder is suitable for iPads of several generations:
- iPad 10th generation (2022)
- iPad Air 4th and 5th generation
- iPad Pro 1st, 2nd, 3rd and 4th generation

The frame is secured by hooking it over the bracket at one end. Built-in magnets in the frame will then pull it tight to the bracket. As a final step, this can be secured from the other side using an adjustment screw.
To power the iPad, a separate wall-mounted USB adapter (QFRAME/USB) can be ordered.

230V 12W flush mount USB Adapter for QFRAME

Product code: QFRAME/USB

The QFRAME/USB is a 230V powered USB adapter for the Qbus QFRAME. This USB adapter can supply 12V (2.4A maximum) of power to various iPad versions.The power cord for the iPad (supplied with the QFRAME) is hidden behind the tablet using a built-in connection.

The QFRAME/USB is mounted using commonly available back boxes according to DIN 490730-1, with a minimum depth of 40 mm. Clamps are included to allow for flush mounting in plasterboard walls.
The adapter has dual power connectors, making it easy to daisy-chain the power supply. The power supply must be protected by a 16A fuse.

The adapter has a minimum standby loss of less than 50 mW.

Videophony

The aluminium Qbus door entry unit has a sleek design with an anodised aluminium finish and real glass protecting the camera.

The Qbus door entry unit is waterproof (IP65) and uses the SIP protocol.The door entry unit can be integrated with Qbus Navigator displays or other SIP receivers such as Gigaset, Polycom, or Grandstream receivers. Integration of the door entry unit is also possible using UbieTouch or another device with the Qbus Control app.

Door entry units		Receivers
Power supply	POE or 12V	
Function & specification	The Qbus SIP videophone consists of 2 models that can be either wall-mounted or surface mounted. The outdoor unit has 2 relay contacts that switch locally. SIP connection peer to peer, via SIP server possible or via the Qbus Control Cloud and Qbus control app. 2M pixel wide-angle camera lens looks at 140° horizontally, 68° vertically. Light sensor switches the camera to black/white night vision in the dark.	Suitable receivers include Qbus Navigators, UbieTouch, or any other device featuring the Qbus Control app. Refer to "Displays" for technical specifications.
Version	QSD01/BB: Qbus SIP video door entry unit with 1 button, for flush or surface mounting. QSD01K/BB Qbus SIP video door entry unit with keypad, for flush or surface mounting.	
Dimensions	215mm (H) x 116mm (W) x 36mm (D)	

Wireless Easywave

The Qbus Wireless Interface (QWI) connects the wired Qbus system to wireless protocols. The QWI/EW connects Qbus to wireless Easywave components.

Easywave has been specifically developed for home and building automation. Since 2001, the protocol has been developed further continuously in order to be adapted to new developments and demands in the market. As the power levels required to send Easywave signals is very limited, the protocol is also approved to be used in medical environments. The Qbus Easywave range offers several components to be used in:

• Renovations (wireless switches, wireless relay modules,…)
• Hybrid wired/wireless solutions: f.e. wireless window contacts detect that the window is open and lower the heating or turn down the airco
• Qbus Care in service flats or for elderly people living at home: wireless panic buttons (on wrist bands, necklaces or as a wall switch) send a message to a care taker
• …

Qbus Wireless Interface
(QWI/EW)

Qbus Wireless Easywave input module (battery-powered) for 4 buttons **(QWE-INP04/bat)**

Qbus Wireless 2-channel flush-mounted transmitter **(QWE INP02/230)**

Qbus Wireless Easywave hand transmitter 4 buttons, metal bracket **(QWE-RC04/metal)**

Qbus Wireless Easywave hand transmitter 1 button anthracite red button **(QWE-RC01/pulse)**

Qbus Wireless Easywave push button transmitter anthracite red button IP65 **(QWE-PB/IP65)**

Qbus Flush-mounted wireless Easywave relay 10A 230V **(QWE-REL01/230)**

Qbus Flush-mounted wireless Easywave relay 10A potential free **(QWE-REL01/230PF)**

Qbus Wireless Easywave door/window contact white **(QWE-MC01/white)**

Qbus wireless Easywave motion detector white **(QWE-SEN01MW)**

Software

Qbus has software packages for the configuration of the system, but also for the control, visualisation and evaluation of the building. We also provide software tools to developers to build applications on the Qbus system or to integrate other systems.

Configure, view, control, evaluate, integrate

The Qbus Full system can be configured with the free configuration software. Via the free Qbus Control Cloud any platform (iOS, Windows, Android) the home can be controlled and viewed from anywhere in the world. The EQOmmand software application allows the integration of videophone and the detailed evaluation of the behaviour of each output.

Configuration software

System Manager III-software: for the configuration of CTD controllers

System Manager III is the configuration software for CTD10, CTD40, and CTDmax controllers.

Serial Manager II-software: for the configuration of CTD controllers

The Serial Manager II is the configuration software for the CTL16-32-64-256 controllers (2009 or earlier).

System Manager III can be used to open the qdb file in Serial Manager II. CTL controllers can be exchanged by means of an upgrade procedure with Qbus support. All existing Qbus systems are compatible with CTD controllers.

To download this software for free, go to **www.qbus.be.**

Qbus Control (Cloud)

With this Qbus Control Cloud the home can be viewed and operated with any platform (iOS, Windows, Android) from anywhere in the world. If desired your Qbus controller can even send e-mails, push notifications and text messages when the children get home, the water consumption is through the roof or the motion detector has detected an alarm situation with granny.

For more information, check **www.qbuscontrol.com**. Qbus Control is included for free with all controllers with a network portal.

EQOmmand

Product code: EQO

EQOmmand software runs on Windows computers and allows for the intuitive, user-friendly control and visualisation of one or more Qbus installations. Customers can easily create layouts, assign outputs to specific rooms, etc. Standard IP-cameras can also be easily connected to the EQOmmand.

Via the Eco Dashboard-tab in EQOmmand all the outputs can be viewed and compared as diagrams or a meter. Electricity, water, gas, etc. meters can also be viewed. To activate EQOmmand on the Qbus controller, a one-time EQOmmand licence is needed for each controller requiring visualisation.

Qbus Control (app)

With the Qbus Control app for Android and iOS, you can use your controller to visualise and control your home on any platform (iOS, Windows, Android), from anywhere in the world. If desired, you can even have your Qbus controller send you an email, text message, or push notification when your children come home, your water usage is unusually high, or if grandma's motion detector is signalling an emergency.

Installer Dashboard*

Qbus Installer Dashboard is a website on which you can add Ubie systems and assign controllers. That way, technicians can handle commissioning remotely and provide support by changing program files through a direct link to the system manager. Controller configurations can be accessed and adapted remotely in the Installer Dashboard. This means minor changes can be carried out without any need for a customer visit.

* Ubie required

Qbus Open

In recent years, the market is being flooded with smart devices and systems. At Qbus, we are convinced that we do not always have to rediscover common knowledge, but we must be able to integrate with the majority of these devices and systems. This is what Qbus Open comes up with – a range of devices and solutions that Qbus has combined into a single integrated system together with other smart home protocols and devices.
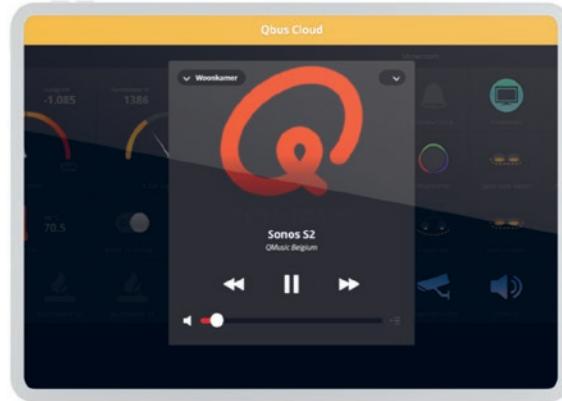
Create your own moods with Qbus Control

Ubie

Ubie: plug & play connection module to enable smooth interaction between Qbus and other automation systems such as KNX and Modbus as well as smart devices such as Sonos, Bose Soundtouch, Alexa, video telephony, Google Home, Outlook Calendar, Google Calendar, Satel (optional) ...

Ubie connects:

- Domotics and immotica systems (such as Qbus, KNX, Modbus, ...) with
- Smart devices (Sonos, Bose, Philips Hue, Nest ...) and
- Infrastructure applications (ventilation, alarm, emergency call, etc.)

Via the Ubie software development kit (SDK) can easily use other applications Ubie be integrated so that all these different applications and systems look like to the user

- A single system
- With a single plug & play Cloud interface
- Can be operated from anywhere in the world
- From any platform (iOS, Windows, Android)

The Ubie enables:

- Visualize the home / building, to control, to operate
- Creation of moods to control different outputs for various systems at the same time by pressing one switch or the Qbus Control
- Audio control possible via swart switch
- Set clock times (when must be a device be turned on or off?)
- Logic links between the different underlying systems
- Receive messages (e-mail, SMS) based of measurements, actions, status, time, ...
- Manage users and devices

Versions

Ubie is available in various versions:

Ubiebox

Product code: Ubiebox

Includes the apps: Qbus, Philips Hue, Sonos, Bose SoundTouch, Symfonisk, IP cameras, Alexa, Satel (optional). New apps can be added later as these become available.

A plug & play device for homes and buildings. Contains the Ubie Operating System, Ubie Chip and a motherboard with a network connection and power supply, and is suitable for plug & play connection to a home or building's local network. The Ubiebox reports itself to the Qbus Control automatically. Customers can create a UbieCloud account to configure their Ubie: creating groups for operations, setting timers, creating moods, linking various devices, granting others access to Qbus Control, etc. Ubiebox automatically detects any smart devices (domotics systems, consumer devices, technical apps) that are supported by Ubie for easy visualisation, control and operation visualisation, control and operation by the customer or technician.

Ubiebox KNX

Product code: Ubiebox/KNX

Includes the apps: KNX, Qbus, Philips Hue, Sonos, Bose, Symfonisk, Google speakers, IP camera's, Alexa, Satel (optioneel). New apps that become available may be added later.

Ubiebox KNX is a Ubiebox that also uses the KNX protocol supports. So can be easy, fast intuitive way Hue lamps, Nest thermostats and smoke detectors, Sonos and Bose wireless music systems connected to KNX installations and can access it via the UbieCloud interface be visualized, operated and monitored.

Not all KNX data types are supported yet by Ubiebox/KNX. Check the website **www.ubiebox.com** to find out which data types are possible.

3.2

openHAB

To link applications that are not supported by Ubie, and where the 'plug & play' feature is less relevant, you can work with the openHAB interface.

openHAB is an Open Source platform on which various smart devices and systems have established a 'binding' or integration. Technical programming knowledge is required in order to link different systems to each other via OpenHAB; the Qbus support department is involved in this in order to provide for the necessary integration for the specific project on the openHAB interface. The openHAB interface is available as a single module on which the openHAB software, the Qbus software and the necessary bindings of the systems and devices that are to be connected are provided for (openHAB box). It is also possible to just purchase the software from Qbus and install it on your own platform. For more questions about openHAB integration, please contact **support@qbus.be**.

A selection of hundreds of devices and systems with which Qbus can be linked via the openHAB interface:

# Qbus Light

Any Light - Any Switch

Lighting makes a real difference in a space's look and feel. There are countless lighting options available these days, from colour LED strips on 48V rails to traditional 220V lamps and digital DALI fixtures. All these types of lighting require the proper controls.

Qbus offers products to control lighting of any kind in many different ways. Possibilities include traditional push buttons, smart Qbus switches in Niko, Bticino, Sumum, Tastu, CJC, Lithoss or JUNG styles, sensors of all kinds and the various Qbus apps (Qbus Control app, Qbus Control Cloud, EQOmmand).

Following requests for quality LED strips, the Qbus range now also includes 48V LED strips.

This range includes a series of high-quality LED strips that operate at 48VDC. These can be perfectly controlled by both Qbus Stand-Alone and Qbus Full.

These LED strips are designed to guarantee superior light quality, long life and maximum ease of installation. The 48V LED strips make longer distances and longer LED strips possible, without loss of (light) quality. The high LED density (90/m for RGBW, up to 300/m for white) guarantees homogeneous lighting. The low current per LED, in combination with power limiters, ensures a lower temperature and overcurrent protection that benefits a long service life.
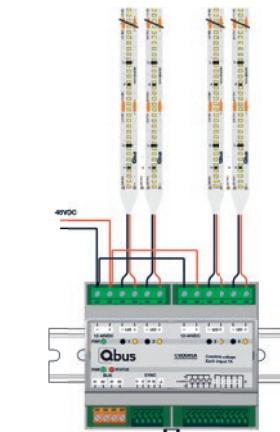

Monochrome 2700K LED strip

Product code: LS48/2700

The LS48 / 27.2700 LED strip is intended for use with a 48VDC constant voltage supply. The LEDs shine lights out at a color temperature of 2700K, comparable to the light color of an incandescent lamp of 60 watts. The strip length is 10 meters and can be connected from both sides. The desired length can be cut in steps of 5 cm (15 leds).

- LEDs per m: 300/3000 per roll
- Power: 27W / m
- Voltage: 48VDC
- CRI> 93.8 (R1 = 95; R2 = 99, R3 = 98; R4 = 93; R5 = 94; R6 = 97; R7 = 91; R8 = 83; R9 = 65; R10 = 96; R11 = 94; R12 = 84; R13 = 96; R14 = 100; R15 = 91)
- SDCM 1
- Luminous flux = 2500 lumen / m
- Maximum length in one piece, fed from one side: 10m
- Protection class: IP20
- PWM dimmable

LED strip warm white – cool white

Product code: LS48/WWCW

The LS48 / 27.WWCW LED strip is intended for use with a 48VDC constant voltage supply. The LED strip can be used as Warm White (WW/ 2000K), Cold White (CW / 6500K) or any color temperature in between. For example, adjustable color temperatures can be used for the circadian rhythm. The length of the strip is 10 m and can be connected on both sides and cut to the desired length in steps of 10 cm (30 LEDs).

- LEDs per m: 300/3000 per roll
- Power: 27W / m (2000K +/- 13.5W / m + 6500K +/- 13.5W / m)
- Voltage: 48VDC
- CRI 95 (R1 = 94; R2 = 94; R3 = 97; R4 = 96; R5 = 94; R6 = 91; R7 = 96; R8 = 98; R9 = 92; R10 = 91; R11 = 93; R12 = 83; R13 = 93; R14 = 98; R15 = 92)
- SDCM 1 (per color)
- Luminous flux 3600K (2000K + 6500K) = 2400 lumen / m
- Luminous flux 2000K = 1000 lumen / m
- Luminous flux 6500K = 1400 lumen/ m
- Maximum length from one piece, fed from one side: 10m
- Protection class: IP20
- PWM dimmable

RGBW LED strip

Product code: LS48/RGBW

The LS48 / 18.RGBW LED strip is intended for use with a 48VDC constant voltage supply. The LED strip has RGBW LEDs and can be controlled by the Qbus CVD04SA module or the DMX interface. The length of the strip is 10 m and can be connected on both sides and cut to the desired length in steps of 16.66 cm (15 LEDs).

- LEDs per m: 90/900 per roll
- Power consumption: 14W/m
- Voltage: 48VDC
- CRI 80 (RGBW)
- Luminous flux: 900 lumen/m
- Maximum length in one piece, fed from one side: 10m
- Protection class: IP20
- PWM dimmable

With Qbus modules at the hub of your electrical system, it becomes possible to coordinate the use of powerhungry devices such as heat pumps and EV chargers with the energy generated by your solar panels.

Providing users with access to clear, transparent information is crucial.The Qbus Control app or Cloud allows for a handy overview of live energy data and makes it easy for users to set up alerts or see the impact of programmed controls. Users become more conscious of their energy consumption and are instantly aware of the results of their own actions!

Qbus supports technicians with energy-related issues and helps them find solutions for customers through targeted training courses such as "Energy and Technology" or "Specialised Energy Management with Qbus". These courses explain common terminology, present practical use cases, and teach simple programming of functions such as boiler controls and Smart Grid relays.

5

Qbus Energy

Qbus makes buildings more efficient.

Thanks to soaring energy prices, the rise of digital meters and new legislation, energy has become a complex challenge in all buildings. Measures to reduce emissions, improve energy efficiency, and promote the deployment of renewable energy have made life harder for people such as property developers, architects, technicians, and end users.

Based on years of control and automation experience, Qbus is eager to present its range of easy, effective solutions for improved energy efficiency in homes and larger buildings. The Qbus Energy modules (ECM, EMM03) offer property users and managers peace of mind by taking real-time energy data, optimising auto-consumption, and forecasting peak load demand into account.

Qbus & Friends

Qbus Integrated Solutions

Commercial buildings and larger projects require special solutions, configurations and the option to integrate with other systems.

The Qbus Integrated Solutions team ensures that the control of HVAC, lighting, screens, access control, and other systems is coordinated for the provision of a pleasant, energyefficient, safe, and comfortable work or living environment. Our service focuses on support: from system design, integration, and configuration to the provision of after-sales services.

Design → Integration → Configuration → After Sales Support

Why Qbus Integrated Solutions?

Qbus offers a wide range of products and solutions to meet the demands of today's building management systems (BMS):

- **Heating – Ventilation – Air Conditioning controls:** to achieve an optimal indoor climate, Qbus HVAC control accounts for various factors such as presence, planned use, diff erences between actual and set temperatures and, of course, locally measured temperature, humidity, and CO_2 values. The result is a healthy, pleasant workplace when it's needed, without wasted energy.

- **Lighting control:** lighting, too, can be controlled based on presence, the amount of natural light, time of day, etc. for an optimal combination of security, comfort, and energy efficiency.

- **Energy management:** alignment of energy production and (predicted) consumption and timely notification of property users/owners regarding availability and consumption of electricity, gas, water, and the like for energy savings.

- **Flexible access control:** easy, instantaneous granting and revocation of access privileges ensures flexibility while keeping operational costs under control.

- **Qbus Service:** Qbus doesn't just supply the products to enable this level of control. From the very beginning, the company is involved in the design, provision of the required integrations, the entire system configuration, and, if needed, after-sales support, in order to make life easier for property owners and technicians.

Qbus Integrated Solutions ensures:

- An **affordable** BMS system that meets your needs and keeps the cost of your installation and its integration under control.

- Guaranteed **peace of mind**: proven technology with guidance and support provided by the actual manufacturer.

- **Expandable system**: Qbus systems are always expandable, due to the lasting compatibility between older and newer Qbus products and solutions.

For more information, visit **www.qbusqis.be**

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Qbus

Maakt gebouwen slim