





XPERIENCE

× 1

The definition of an experience is something that happens to you that affects how you feel. A true experience is an event that addresses the senses, creates emotion and in doing so, is memorized.

Nexmosphere's products are used to create beautiful interactive experiences using exciting technology. We develop and manufacture sensors and controls, offering a robust platform solution for interactive components in Digital Signage installations. Utilizing our API, Nexmosphere's sensor platform is easy to use with almost any digital hardware platform such as BrightSign, Intel or Android and runs with many CMS systems.

Watch our online videos for in-depth product explanation and project inspiration by capturing the QR code below (YouTube):



ELEMENTS

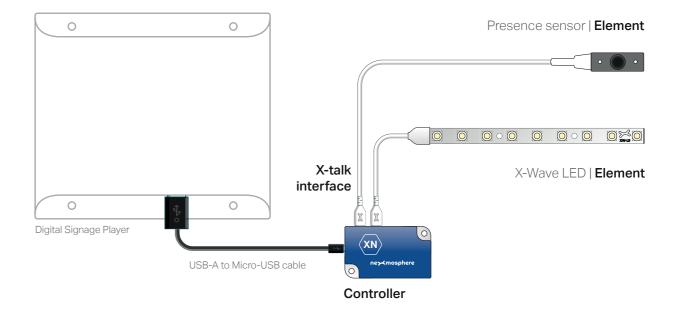
Nexmosphere Elements are our collection of sensors and interfaces, such as pick-up sensors, presence sensors or LED. By combining different Elements on our Xperience controllers, interactive experiences can be created.

CONTROLLERS

Xperience controllers are used to combine Elements and connect them to any Digital Signage player or PC. The controller is the part of the system that translates the communication coming from the Elements to the connected device and vice versa. Some of the Controllers have additional functionalities embedded into them such as LED control or audio switching.

X-TALK

The connection method between Nexmosphere's Elements and Controllers is called X-talk. Calculate the number of X-talk channels needed by adding up the number of Elements used and pick the right Controller model for the job.







ELEMENTS | sensors and actuators

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ELEMENTS

sensors and interfaces





XY RANGE | people tracking

The Nexmosphere XY range offers a variety of sensors that detect and analyze presence, distance and demographics of the people in front of your digital signage or POS installation. Whether you want to increase the impact by triggering the right content at the right time, want to program attractive lighting changes and increase engagement, or want to collect valuable data, the XY range has a sensor which provides the input to do so.

X-EYE PRESENCE & PROXIMITY



The X-Eye Presence sensors are narrow-beam IR proximity sensors that detect if an object or person is present and indicate the distance to the person from the sensor.

IR proximity technology

XY-11x | 05cm - 80cm XY-14x | 15cm - 150cm XY-17x | 50cm - 500cm 5.5° beam

X-EYE PRESENCE & AIRBUTTON



The X-Eye Presence & AirButton sensor is an IR Timeof-Flight sensor that detects if an object or person is present and accurately indicates the distance to the person from the sensor.

IR Time-of-Flight

XY-240 | 0-250cm XY-241 | 0-170cm 15 - 27° FoV

X-EYE MOTION



The X-Eye Motion sensor detects the amount of motion in its detection field. It can be installed behind any non-metal surface, resulting in an invisible embedded sensor solution.

Doppler radar

X-EYE GENDER



The X-Eye Gender sensor detects the gender and age range of a person, enabling content triggering and data collection. It does not require network connectivity and doesn't store video data, making it 100% GDPR-compliant.

Gender recognition Age estimation

XY-510 | 15cm - 120cm **XY-520** | 35cm - 250cm

XR RANGE | RFID pick-up sensors

The Nexmosphere XR range offers the products needed to build wireless pick-up sensors and NFC applications using RFID technology. The antenna driver detects a tag when it gets close to the antenna and sends trigger messages and tag information to the Xperience controller. Adhere the tags under the merchandise and trigger the video content on screen when products get picked-up, or -placed down. The drivers are compatible with any Nexmosphere antenna, and -controller model.

XR ANTENNAS



The XR antenna is a slim, easy to built-in RFID antenna. It can be hidden behind a variety of non-metallic design materials such as acrylics, wood, glass and stone. Define your detection surface area and match it with the right shape and size antenna for your product and application.

RFID technology

XR-C05 circular, 50mm
XR-C10 circular, 100mm
XR-A45 rect., 297x148mm
XR-A50 rect., 210x74mm
XR-A60 rect., 148x106mm
XR-A65 rect., 148x52mm
XR-A70 rect., 105x74mm
XR-A80 rect., 74x52mm
100mm cable

XR-DR1 ANTENNA DRIVER



The XR-DR1 antenna driver detects and processes "tag pick-ups" and "tag placement" coming from the connected antenna and tag. It is the ideal solution for easy-to-implement Lift & Learn or Place & Learn applications, containing up to 250 products. It can be used in combination with any of the XR antennas.

RFID technology

XR-DR1 13.56 Mhz RFID Multi-Tag detect

XR-2 ANTENNA DRIVERS



The XR-2 driver detects "tag placement" and "tag removals" and processes additional tag information from NTAG213 tags such as the UID or text fields. It can also write a Tag number and Custom text labels on the NFC tag. Providing the ideal solution for complex or large-scale NFC applications in which tags need to be dynamically (over)written.

NFC technology

XR-DR2 | Read-only NFC NTAG213

XR-DW2 Read and Write NFC NTAG213

RFID TAGS



The standard tags for use with this product range, are industry standard tags that can be ordered already programmed with their respective numbers, or as empty tags that still require programming and labelling.

MiFare tags use with XR-DR1

XNR tag | 26mm, programmed XNB tag | 26mm, unprogrammed

NTAG213 tags use with XR-2

XNN tag | 26mm, unprogrammed





XF RANGE | wireless pick-up sensors

The Nexmosphere XF range offers an innovative way to use wireless pick-up sensors without the need for installing any hardware within your store furniture or shelving. The battery-powered sensors can be placed in or on your merchandize and facilitate triggering the programmed content on the Xperience controller when the merchandize is interacted with by the shopper. Use this technology to easily transform existing store installations into interactive experiences with minimal effort.

P3 WIRELESS PICK-UP SENSOR



The P3 sensor is a battery-powered pickup sensor that can be placed in, or -under merchandize. The sensor detects any change of positioning when the shopper interacts with the merchandize on display and translates this into triggers that are sent towards the controller unit that can be invisibly installed at distance from the actual sensor.

Pick-up detection (accelerom.) Wireless comm. 2.4Ghz ANT+

XF-P3W	white housing
XF-P3B	black housing
XF-P3N	no housing

all | 2 years avg. battery life 8-10m range 32mm diameter

EM-F WIRELESS X-TALK INTERFACE



The EM-F Extension Modules receive the signals coming from the P3 sensors after these have been paired with a wireless X-talk interface. Each P3 sensor connects to its own wireless X-talk interface on the EM unit. Combine a maximum of 5 EM units onto the controller unit, allowing up to 40 sensor connections on one single controller. All EM modules only work in combination with an XM Xperience controller.

Wireless X-talk receiver

EM-F1	1 channel
EM-F4	4 channel
EM-F8	8 channel
	I

XW RANGE animated LED Lighting

The Nexmosphere X-Wave range consists of a variety of animated LED lighting products. They allow incorporating creative lighting effects in your installations that enhance interactivity. Use animated lighting to attract, highlight, contrast, indicate and guide.

X-WAVE



The X-Wave is a rigid linear LED board fitted with RGB LEDs. Set any RGB color to match or contrast merchandize or brand style. Settings as dimming speed, light output and sinus repetition can be adjusted to match the required lighting behavior and effect.

Linear wave lighting

XW-L56 | 5 LEDs XW-L96 9 LEDs

X-WAVE LINEAR INTERFACE



The X-Wave Linear interface enables Wave LED control over flexible pixel LED strips. Each interface allows connection to one LED strip. Strips can be divided into segments over which the X-Wave animations can be executed.

Pixel LED strip interface Wave animation control

XW-DL6 | max. control 120 LEDs max. 12 LEDs / segment

also available as MicroModule, assembled on XN-135 (XN-138M8L)

X-WAVE SELECTION INTERFACE



The X-Wave Selection interface enables Selection LED control over flexible pixel LED strips. Each interface allows connection to one LED strip. It allows splitting up LED strips into segments that can be illuminated to indicate products that correspond to selection inputs given by the shopper.

Pixel LED strip interface Selection animation control

XW-DS6

max. control 120 LEDs max. 26 segments max 15 LEDs /segment

also available as MicroModule, assembled on XN-135 (XN-138M8S)

X-WAVE COLOR



The X-Wave Color LED is an X-Dot housed product fitted with one RGB pixel LED. It can be programmed in any color and fade from one color to another. Use it as a visual indicator to mark a certain spot or product of interest.

RGB indication LED

XW-C56

RGB LED Glow animations







XZ RANGE | object detection

The Nexmosphere XZ range offers a variety of sensors that detect the status of the objects on which they are applied. By detecting the object status, we enable the possibility to log and communicate these values, as well as actively respond to critical threshold values.

COLOR SENSOR



The XZ-Color sensor can detect the color of objects that are held against or placed upon the sensor. Any color can be detected and communicated back to any Xperience controller.

Color sensing

XZ-H60

Hue Saturation Brightness

LIGHT SENSOR



The XZ-Light sensor can detect the amount of light that falls in the sensor. This information can be used to determine whether merchandize is placed on top of the sensor or not, to create Lift & Learn or Place & Learn applications whenever RFID or battery-powered sensors can't be applied.

Object Pick-up detection Light sensor

XZ-L20

adj. trigger values X-Dot form factor

ANGLE SENSOR



The XZ-Angle sensor can detect the orientation of the sensor at any given moment, by calculating its angle as opposed to its default relative position that was previously set.

Angle orientation detection

XZ-A40

3-axis orientation adj. trigger positions

XE RANGE | environmental sensing

The Nexmosphere XE range offers sensors that analyze and communicate environmental conditions. By detecting the surrounding circumstances, we enable the possibility to log and communicate these values, as well as actively respond to certain critical threshold levels such as high temperature.

AMBIENT LIGHT SENSOR



The XE- Ambient light sensor detects the amount of light in its surroundings and communicates the amount of lux back to the Xperience controller, facilitating adjustment of lighting levels based on environmental light conditions.

Ambient light sensor (lux)

XE-A20 | 1 - 120.000 lux

TEMPERATURE SENSOR



The XE-Temperature sensor detects temperature and humidity levels and can be adhered to heat sensitive objects. Triggers can be used to build a log file for warranty evaluation and to send messages to centralized systems to help protect installations. This simplifies compliance to a growing body of regulations within the digital signage industry.

Temperature detection **Humidity detection**

XE-T50

-25°C | +75°C temp 1 - 99% Humidity





XS RANGE | wired pick-up sensors

The Nexmosphere X-Snapper range offers magnetic pick-up sensors that can also be used as active security devices. Merchandize is mounted onto the sensor and when lifted or placed back, the X-Snapper sends a trigger to the connected Xperience controller, facilitating content triggering and measurement of pick-up durations. The security function sends triggers whenever merchandize is removed, the wire is cut or pulled out. This sensor is specially designed to attach to handheld devices of different sizes and shapes.

XS SERIES



The XS-Snapper detects either release from, or connection with, its passive counter block and sends triggers to the connected Xperience controller accordingly, both registering pick-ups and place downs. Use the XS-Snapper for presenting smaller, handheld devices such as shavers, toothbrushes or phones.

Wired pick-up sensor (HALL) Active security

white housing:

XSW-X16 pick-up only XSW-X26 security only XSW-X36 pick-up and security XSW-N0S counter block

black housing:

XSB-X16 pick-up only XSB-X26 security only XSB-X36 pick-up and security XSB-N0S counter block

all coiled cable

XL SERIES



The XL-Snapper detects either release from, or connection with, its passive counter block and sends triggers to the connected Xperience controller accordingly, both registering pickups and place downs. Use the flat XL-Snapper for presenting larger devices such as tablets and the curved model for hair stylers.

Wired pick-up sensor (HALL) **Active security**

white housing, flat cover

XLFW-X16 pick-up only XLFW-X26 security only XLFW-X36 pick-up and security XLFW-N0S counter block

black housing, flat cover

XLFB-X16 pick-up only XLFB-X26 security only XLFB-X36 pick-up and security XLFB-N0S counter block

all options also available with curved cover. E.g.:

XLCW-X36 pick-up and security XLCB-X36 pick-up and security

XS ACCESSORIES | pedestals, holders & spares

The Nexmosphere X-snapper range is complemented by accessories and spare parts specifically designed for instore use. This makes completion and installation of POS designs fast and easy while providing a professional finish.

X-SNAPPER DOUBLE



The X-Snapper double consists of two magnetic X-snapper blocks attached to a single continuous spiral cable. This double snapper is not attached to an Xperience controller and does not send triggers. It can be used to securely display products and make sure they are not misplaced after use.

Passive merchandize security

XSW-X1S 100mm cable XSW-X2S 200mm cable XSW-X3S 300mm cable

XLFW-X1S 100mm cable, XL XLFW-X2S 200mm cable, XL

XL versions also available with curved cover

X-SNAPPER STAND



The X-Snapper stand is a pedestal designed for use with the X-Snappers. The stand is bolt fixed in the POS furniture and the X-Snappers are installed on top of its surface. It allows placement of the merchandize at an angle facing the shopper, giving a 'floating' appearance while the stand itself remains visually hidden behind the merchandize.

Merchandize placement

XAT-HL2 25°, low height XAT-HL4 45°, low height XAT-HM2 25°, medium height XAT-HM4 45°, medium height XAT-HH2 25°, high height XAT-HH4 45°, high height

transparent

X-SNAPPER SPARE TAPE



The X-Snapper spare tapes can be used when merchandize is replaced on the POS because of maintenance reasons or the renewal of merchandize during seasonal rotation.

Double-sided tape

XAS-TS1 10-pack XAS-TS5 50-pack XAS-TS9 1365 roll

> double-sided industrial standard

PRICE TAG HOLDER



The price tag holder is designed for use with the X-Snapper stand. It can be positioned in place using the bolt fixation of the X-snapper stand. This leaves dedicated space to the side of the X-snapper stand where you can place price and product information.

Double-sided tape

XAT-PLS XAT-PLL XAT-PLL XAT-PHL

low, short length low, long length high, short length high, long length

20° viewing angle transparent





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XD RANGE | easy interfacing

The Nexmosphere X-Dot range offers a variety of functions divided into two subdivisions: easy interfacing and wired pick-up sensors. They share their ultra-small form factor and the cable design that offers the flexibility of both bottom and side feed installation. Giving the option to use the Elements directly on a surface or to hide the cable from sight. They're easy to install, use and maintain due to the non-marking double-sided installation tape and highquality finishing.

X-DOT SERIAL INTERFACE



The X-Dot Serial interface connects a USB or serial port from a 3rd party device -such as a screen-, to any Nexmosphere controller. This enables bi-directional communication between the connected 3rd party device and the Nexmosphere Controller.

Serial interfacing

XDW-S30	serial over USB
XDW-S40	RS-232 serial
XDW-S50	TTL serial

X-DOT I/O INTERFACE



The X-Dot I/O interfaces generic I/O devices such as pushbuttons, pressure mats, switches, keylocks, and relays. Additionally, the onboard LED controller offers full control over LED behavior for pushbuttons equipped with an LED ring.

I/O interfacing

XDW-I36	3.3V I/O
XDW-I56	5.0V I/O

X-DOT ANALOG INTERFACE



The X-Dot Analog is a versatile interface that connects 5V analog output devices, such as ultrasonic sensors, rotary knobs, sliders, and PIR motion sensors, to interactive installations.

Analog sensor interfacing

XDW-A50 | 5V in / output

X-DOT BUZZER INTERFACE



The X-Dot Buzzer is a dual interface for 5V buzzer/ tweeter devices that can be implemented whenever triggering confirmation sounds is required in an installation. I.e. alarm functionality, beep confirmation of an executed action, or attention requested.

Buzzer interfacing

XDW-B06 | interface only XDW-B46 interface incl. beeper

XD RANGE | wired pick-up sensors

The Nexmosphere X-Dot range offers a variety of functions divided into two subdivisions: easy interfacing and wired pick-up sensors. They share their ultra-small form factor and the cable design that offers the flexibility of both bottom and side feed installation. Giving the option to use the Elements directly on a surface or to hide the cable from sight. They're easy to install, use and maintain due to the non-marking double-sided installation tape and highquality finishing.

X-DOT X



The X-Dot X is a wired pick-up sensor that can also be used as an active security device. The sensor is mounted onto the merchandize using doublesided tape. When a product is lifted or placed back, the X-Dot sends a trigger to the connected Xperience controller. The security function sends triggers whenever merchandize is removed, the wire is cut or pulled out.

Wired pick-up sensor (accelerom.) **Active security**

white housing:

XDW-X16 pick-up only XDW-X26 security only XDW-X36 pick-up and security

XDW-X36C pick-up and security coiled cable

black housing:

XDB-X16 pick-up only XDB-X26 security only

XDB-X36 pick-up and security

XDB-X36C pick-up & security coiled cable

X-DOT X SPARE TAPES



The X-Dot spare tapes can be used when merchandize is replaced on the POS because of maintenance reasons or the renewal of merchandize during seasonal rotation.

Double-sided tape

XAS-TX1 10-pack XAS-TX5 50-pack XAS-TX9 2750 roll

> double sided industrial standard





XT RANGE | airbuttons, capacitive touch & mechanical buttons

The Nexmosphere X-Touch range can be applied when looking to integrate buttons. The implementation of buttons allows conversion from static digital signage, into interactive and responding presentations by having the shopper give input choices and selection options. AirGesture and AirButton sensors process in-the-air swiping, circling and button presses and provide a solid non-touch solution.

XT-EF AIRGESTURE AND AIRBUTTONS (NON-TOUCH INPUT)



The XT-EF series sensors can detect AirButtons, AirGestures and AirWheels. AirButton detects whenever a person's hand enters and leaves the sensor's detection field and can also register and respond to physical Touch input. AirGesture registers left, right, up, and -down swipes within the detection field. AirWheel detection processes circle tracing by the user's fingers above the sensor.

E-Field Gesture tracking Non-touch input

XT-EF680 | 180x140mm 140x90mm XT-EF650 **XT-EF630** 90x70mm

AirButton, AirGesture,

AirWheel

XT-EF30 90x70mm AirButton only

TOUCH BUTTONS



The X-Touch capacitive buttons detect a person's touch on the button or an overlying material. The technology works with multiple non-metal overlay materials, such as acrylic, glass, cardboard, and wood. They can be integrated into furniture without visually drawing away from the design.

Capactive touch **LED** control

XT-4FW6 XT-4GW6 XT-1EW6 XT-1GW6 1 large button

4 small butons, linear 4 small butons, rect. 1small button

all fitted with button LEDs

PUSH-BUTTON INTERFACE



The X-Touch button interface is a 4-channel pushbutton interface with LED control and can be used in combination with industry-standard push buttons. It allows the connection of up to four buttons onto a single interface. This results in the connection possibility of up to 9 push buttons even on the smallest Xperience controller. Programmable LED output options are on, off, slow and fast blink.

Push-button interface LED control

XT-B4N6

4 interfaces 3.3V LED contr. easy click-in

Push buttons (accessory item)

S-B90xxx | 19mm standard S-B95xxx 19mm value line















CONTROLLERS

Xperience controllers are used to combine Elements onto and connect them to any Digital Signage player or PC. The controller is the part of the system that translates the communication coming from the Elements to the connected device and vice versa. Some of the controllers have additional functionalities embedded into them such as LED control or audio switching.

API

Each controller runs Nexmosphere's API. This API provides full control over all connected Elements to the Digital Signage player to which the controller is connected.

Each time a sensor is triggered, an API command is automatically sent from the Xperience controller to the Digital Signage player. Vice versa, actuators such as LED and audio switches can be easily controlled by sending API commands from the Digital Signage player to the Xperience controller.

All API commands are sent via serial communication. Both controllers with RS-232 serial interfacing as well as Serialover-USB are available.

XN-RANGE | nano Xperience controllers

The Nexmosphere XN range offers Xperience controllers in a small form factor making it ideal to use when space is limited and integration with other systems is required. Connect your Elements of choice and build a unique shopper journey; LED lighting that starts glowing when a shopper approaches or product info showed when a product is placed on an "info platform". Whichever interactivity suits your brand's story, create a lasting impression using the XN Xperience controller.

XN-100 SERIES



The connection method to Nexmosphere's Elements is called X-talk. Calculate the number of X-talk channels needed by adding up the number of Elements used and pick the right model for the job. Nano controller models that are fitted with a MicroBay or onboard interface, offer an additional connection possibility for specific Elements. The Controllers are equipped with a USB or RS232 interface to integrate the sensor Elements with your connected device.

RS-232 interface X-talk only	USB interface X-talk only	USB interfac X-talk & onb	ce oard interfacing
XN-180 8x X-talk	XN-135 2x X-talk	XN-135M3	2x X-talk, 1x Presence interf
	XN-185 8x X-talk	XN-135M8	2x X-talk, 1x X-Wave interf.
		XN-165	2x X-talk, 1x 4 button interf.

XN-RANGE ACCESSORIES



The Nexmosphere Nano range is complemented with the cables needed for communication and power supply. When using XN models with a USB interface, the USB port of the connected device also provides power to the Nexmosphere controller. Most USB ports supply enough power to the Elements without the need for additional power, except when connecting LEDs. When using LEDs consider the use of a USB split cable together with a power supply to provide enough power or consult us for advice. When using the XN models with a serial connection, the use of a power supply is always required.

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	Micro-USB cable, 60cm
CA-UM6B	Micro-USB cable, 180cm

USB split cables (power/data)

	Micro-USB split cable
	USB-A / USB-A
V-IIDEB	Micro-LISB split cable

CA-UD5B | Micro-USB split cable 2.5mm DC / USB-A

Serial cables

CA-JJ9B	Jack 3.5 to Jack 3.5
CA-JD9B	Jack 3.5 to D-sub 9

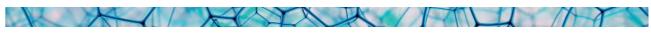
Power supplies (USB)

PU-0520EU	EU, 5VDC/2A, USE
PU-0520US	US, 5VDC/2A, USE

Power supplies (DC, grounded)

PU-0530EU	EU, 5VDC/3A, 2.5mm
PU-0530US	US, 5VDC/3A, 2.5mm





compact Xperience controllers XC-RANGE

The Nexmosphere XC range offers Xperience controllers in a compact form factor while offering various onboard functionalities. Choose the right controller series based on the functionality needed, whether this is controlling multiple RGBW LED strips, pixel LED strips or (optical) audio switching. Combine this with Elements connected onto the X-talk channels to build your own unique experience.

XC-700 SERIES



The 700 series is equipped with LightMark interfaces which allow connecting flexible pixel LED strips. LightMark LED technology allows the user to select one of the numerous preprogrammed animation patterns and modify its parameters to fit the exact application, whether it's a gentle soft glow or a complex running light.

LightMark pixel LED control | X-Talk interface | USB API interface

XC-720 2x LightMark interface, 4x X-talk XC-741 4x LightMark interface, 8x X-talk

XC-748 4x LightMark interface, 4x X-talk, 2x RGBW LED output

XC-760 6x LightMark interface, 4x X-talk

XC-800 SERIES



The 800 series is equipped with full dimmable RGBW LED outputs which allow connecting 12/24V LED strips. Transition smoothly between different colors and create just the right atmosphere with subtle lighting and tailored RGBW LED colors.

RGBW LED output | X-Talk interface | USB API interface

XC-820 2x RGBW LED output, 4x X-talk XC-841 4x RGBW LED output, 8x X-talk

XC-847 4x RGBW LED output, 4x X-talk, 2x LightMark interface

XC-860 6x RGBW LED output, 4x X-talk

LED BOARDS



The LED boards come in various shapes and are fitted with either Pixel or RGBW LEDs. They connect directly to the XC controllers and can be daisy-chained, making them easy, and flexible to install. They're especially suitable for highlighting sections on a translucent panel.

Pixel LED boards for XC-700 series

_B-P206C	6 LEDs, circular 50mm	LB-X506C	6 LEDs, circular 50mm
_B-P212R	12 LEDs, 90x100mm	LB-X512R	12 LEDs, 90x100mm
_B-P219C	19 LEDs, circular 100mm	LB-X518C	18 LEDs, circular 100m
CAW-NyW	connection cable	CA5-NxW	connection cable

Pixel LED boards

RGBW LED boards

RGBW LED boards for XC-800 series

XC-RANGE | compact Xperience controllers

XC-900 SERIES



The 900 series is equipped with audio switches to facilitate easy and seamless switching of an incoming audio stream from one speaker, soundbar or headphone to another. Both analog switches (3.5mm jack plug) and optical switches (Mini-Toslink) are available.

Audio switching | X-Talk interface | USB API interface

XC-931 4x optical switch, 8x X-talk XC-937 4x optical switch, 4x X-talk, 2x X-Wave interface XC-938 4x optical switch, 4x X-talk, 2x RGBW LED output

XC-941 4x analog switch, 8x X-talk

XC-947 4x optical switch, 4x X-talk, 2x X-Wave interface XC-948 4x analog switch, 4x X-talk, 2x RGBW LED output

XC-RANGE ACCESSORIES



The Nexmosphere XC range is complemented with the cables needed for communication and power supply. The Compact range controllers require a USB cable for communication and a power supply. Calculate the power consumption of the complete system or consult us for advice to pick the right power supply for your project.

Power supplies 24V

PS-2416EU | EU, 24VDC/1.67A, 2.1mm **PS-2416US** US, 24VDC/1.67A, 2.1mm **PS-2425EU** EU, 24VDC/2.5A, 2.1mm **PS-2425US** US, 24VDC/2.5A, 2.1mm

PS-2438EU | EU, 24VDC/3.75A, 2.1mm **PS-2438US** US, 24VDC/3.75A, 2.1mm

Power supplies 12V

USB cables

PS-1220EU EU, 12VDC/2A, 2.1mm **PS-1220US** US, 12VDC/2A, 2.1mm **PS-1250EU** | EU, 12VDC/5A, 2.1mm **PS-1250US** US, 12VDC/5A, 2.1mm

CA-UM6B Micro-USB cable, 180cm

CA-UM4B | Micro-USB cable, 60cm

Pixel LED strips for XC-700 series L-P1xxxxxW | Pixel LED strip 30 LEDs/m

L-P2xxxxxW Pixel LED strip 60 LEDs/m L-P3xxxxXW Pixel LED strip 144 LEDs/m

RGBW LED strips for XC-800 series

RGBW LED strip 24V L-X5xxxxxL

60 LEDs/m





XM-RANGE | modular Xperience controllers

The Nexmosphere XM range offers Xperience controllers in an configurable and extendable form factor making it ideal to use when functionality combinations which aren't available in the smaller ranges are required. This series consists of XM controllers and EM extension units, which are mounted together at our production facilities in order to offer you just the right set of functionalities for your project.

XM CONTROLLERS



The Modular controllers are fitted with 1 X-talk channel on the unit itself and can support up to 5 Extension Modules and 8 Shop Modules. The Controllers are equipped with a USB or RS232 interface to integrate the sensor Elements with your connected device via our API.

Modular architecture API interfacing

Modular architecture

EM-F8

8x wireless X-talk

XM-350 | RS-232 API interfacing

EXTENSION MODULES



The EM modules define the exact specification of the complete XM Xperience controller. Combine any of the modules into one system to make it fit the application requirements. Different functionalities such as LED control, audio switching or large numbers of Element connections through X-talk channels can all be combined on a single XM controller. The EM modules are pre-assembled onto the XM controllers at our production facilities.

Modular architecture

Audio switching		LED con	LED control		
EM-1 EM-4 EM-30 EM-34	1x audio input 4x audio switching 1x optical input 4x optical switching	EM-2 EM-5 EM-6	1x RGB LED output 5x mono LED output 5x RGB LED output		
Modular architecture		Modular architecture			
Wireless X-talk		X-talk			
EM-F1	1x wireless X-talk	EM-7	4x X-talk		
EM-F4	4x wireless X-talk	EM-8	8x X-talk		

XM-RANGE | modular Xperience controllers

SHOP MODULES



Shopbus Modules are specifically designed for two reasons; firstly, creating large systems where more interfaces are needed than one XM controller with connected EM modules can provide. And secondly; allowing large interspacing between several control units, when Elements are needed far apart from each other. The Shopbus architecture enables connecting multiple XM-like controller units together, with the possibility of using long cable lengths between the units. All the while, the interfacing towards the connected device can still take place through one serial communication connection.

X-talk		X-talk	X-talk	
SM-100	8x X-talk	LED cont	crol	
SM-200	16x X-talk	SM-110	8x X-talk, 5x mono LED output	
SM-300	24x X-talk	SM-115	8x X-talk, 5x RGB LED	
SM-400	32x X-talk	SM-120	8x X-talk, 10x mono LED output	
		SM-125	8x X-talk, 10x RGB LED	

XM-RANGE ACCESSORIES



The Nexmosphere Modular range is complemented with the cables needed for communication and power supply. The XM controllers require a serial connection cable and a power supply. Depending on the Elements connected to the EM modules, additional power supplies might be required on individual EM modules. When using Shopbus modules, Shopbus cables are required between the units. Calculate the power consumption of the complete system or consult us for advice to pick the right power supply for your project.

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	Serial cables		Power supplies (12V, LED modules)	
	CA-9J9B CA-9D9B CA-9U9B	RJ-9 to Jack 3.5mm RJ-9 to Sub-D9 RJ-9 to USB	PS-1220EU PS-1220US PS-1250EU PS-1250US	EU, 12VDC/2A, 2.1mm US, 12VDC/2A, 2.1mm EU, 12VDC/5A, 2.1mm US, 12VDC/5A, 2.1mm
	ShopBus ca	ables	P3-123003	03, 12VD0/3A, 2.1111111
	CAS-N9R	200cm, red (power)	Power suppli	es (24V, LED modules)
	CAS-N8B CAS-N9B CAS-NDB CAS-NHB	100cm, black 200cm, black 10m, black 25m, black	PS-2416EU PS-2416US PS-2425EU PS-2425US	EU, 24VDC/1.67A, 2.1mm US, 24VDC/1.67A, 2.1mm EU, 24VDC/2.5A, 2.1mm US, 24VDC/2.5A, 2.1mm
	Power supp	olies (5V, XM controller)	PS-2438EU	EU, 24VDC/3.75A, 2.1mm
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	PS-0530EU PS-0530US		RGB LED stri	



