









### **XPERIENCE**

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**

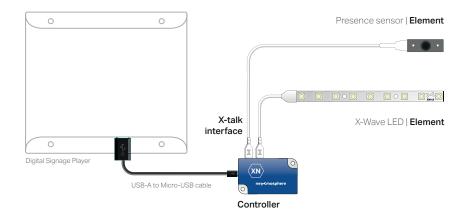
Nexmosphere Elements are our collection of sensors and interfaces, such as pick-up sensors, presence sensors or LED. By combining different Elements on our Xperience controllers, interactive experiences can be created.

### **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-Eve 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

XY-320 | 1.2m - 10m 10.525 Ghz

### 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., 210x148mm XR-A55 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

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

### 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

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

adi. trigger values X-Dot form factor

### **ANGLE SENSOR**



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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**

-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

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 pick-up only XLFW-X16 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 low, short length XAT-PLL low, long length XAT-PLL high, short length XAT-PHL high, long length

> 20° viewing angle transparent







# SUS COM (PC distributed by Distribution AG

### **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 high-quality 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 USE
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 push buttons, 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 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 on	
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 high-quality 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 double-sided 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

II 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 XT-EF650 140x90mm 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 | 4 small butons, linear 4 small butons rect XT-4GW6 XT-1EW6 1small button XT-1GW6 1 large 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**

connecting Elements









### 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

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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 USB interface X-talk only X-talk only		USB interface X-talk & onboard interfacing		
XN-180 8x X-talk	XN-135 2x X-talk	XN-135M3	2x X-talk, 1x Presence interl	
	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**

CA-JD9B



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.

USB cables	S	Power suppli	ies (USB)
CA-UM4B	Micro-USB cable, 60cm	PU-0520EU	EU, 5VDC/2A, USB
CA-UM6B	Micro-USB cable, 180cm	PU-0520US	US, 5VDC/2A, USB
USB split o	ables (power/data)	Power suppli	ies (DC, grounded)
CA-US5B	Micro-USB split cable	PU-0530EU	EU, 5VDC/3A, 2.5mm
	USB-A / USB-A	PU-0530US	US, 5VDC/3A, 2.5mm
CA-UD5B	Micro-USB split cable	'	
	2.5mm DC / USB-A		
Serial cabl	es		
CA-JJ9B	Jack 3.5 to Jack 3.5		

Jack 3.5 to D-sub 9





### **XC-RANGE** | compact Xperience controllers

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 outpu
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 LFD boards for XC-700 series

Pixel LED boards for XC-700 series		RGBW LED	RGBW LED boards for XC-800 series	
LB-P206C	6 LEDs, circular 50mm	LB-X206C	6 LEDs, circular 50mm	
LB-P212R	12 LEDs, 90x100mm	LB-X212R	12 LEDs, 90x100mm	
LB-P219C	19 LEDs, circular 100mm	LB-X218C	18 LEDs, circular 100mm	
CAW-NxW	connection cable	CA5-NxW	connection cable	
	Pixel LED boards		RGBW LED boards	



### 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 outpu

### **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

	EU, 24VDC/1.67A, 2.1mm US, 24VDC/1.67A, 2.1mm	EU, 12VDC/2A, 2.1mm US, 12VDC/2A, 2.1mm
	EU, 24VDC/2.5A, 2.1mm US, 24VDC/2.5A, 2.1mm	EU, 12VDC/5A, 2.1mm US, 12VDC/5A, 2.1mm
PS-2438EU	EU, 24VDC/3.75A, 2.1mm	

Power supplies 12V

**USB** cables

CA-UM4B | Micro-USB cable, 60cm CA-UM6B Micro-USB cable, 180cm

### Pixel LED strips for XC-700 series

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

L-P1xxxxxW	Pixel LED strip 30 LEDs/r
L-P2xxxxxW	Pixel LED strip 60 LEDs/r
L-P3xxxxxW	Pixel LED strip 144 LEDs

### RGBW LED strips for XC-800 series

L-X5xxxxxL	RGBW LED strip 24V
	60 LEDs/m



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### **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

XM-350 | RS-232 API interfacing

### **EXTENSION MODULES**



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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

EM-1 1x audio input EM-4 4x audio switching EM-30 1x optical input EM-34 4x optical switching

### Modular architecture LED control

EM-2 1x RGB LED output EM-5 5x mono LED output 5x RGB LED output FM-6

### Modular architecture Wireless X-talk

1x wireless X-talk FM-F1 FM-F4 4x wireless X-talk EM-F8 8x wireless X-talk

### Modular architecture

FM-7 4x X-talk 8x X-talk EM-8

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

SM-100 8x X-talk SM-200 16x X-talk SM-300 24x X-talk SM-400 32x X-talk

### X-talk LED control

8x X-talk, 5x mono LED output SM-110 SM-115 8x X-talk, 5x RGB LED 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.

### Serial cables

CA-9J9B RJ-9 to Jack 3.5mm CA-9D9B RJ-9 to Sub-D9 CA-9U9B RJ-9 to USB

#### ShopBus cables

CAS-N9R | 200cm, red (power) CAS-N8B | 100cm, black CAS-N9B 200cm, black CAS-NDB 10m black CAS-NHB 25m, black

Power supplies (5V, XM controller)

PS-0520EU | EU. 5VDC/2A, 2.5mm

PS-0520US US, 5VDC/2A, 2.5mm

PS-0530EU | EU, 5VDC/3A, 2.5mm

PS-0530US US, 5VDC/3A, 2.5mm

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

Power supplies (24V, LED modules)

Power supplies (12V, LED modules)

PS-1220EU | EU. 12VDC/2A. 2.1mm

### **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

#### RGB LED strips for EM-6

L-X5xxxxxS | RGBW LED strip 24V 60 LEDs/m





