

Xperience platform

All of Nexmosphere's controllers are built on the same platform principles. If this is your first time using a Nexmosphere controller, we recommend to first read <https://nexmosphere.com/technology/xperience-platform/> to learn the basics about our platform and its terminology.

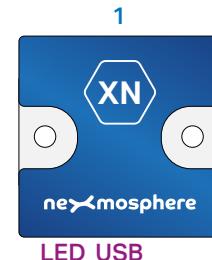
XN-115

The XN-115 is an Xperience controller with 1 X-talk interface:

1. X-talk interface 001

USB. 5V Power input and API interface (micro-USB connector)

LED. White status LED



Hardware setup

1. Connect an Element to the X-talk interface.
2. Connect the micro-USB cable to a 3rd party device (e.g. Digital Signage Player or PC).
3. Wait until the white status LED stops blinking. This lasts about 5 seconds.

Software setup for testing (Terminal)

Typically, the XN-115 controller is connected to a 3rd party device, such as a Digital Signage Player, on which CMS software is installed which has built-in functionality for sending and receiving Serial Events. However, if you want to do a first test on a PC or Mac, follow the instructions below:

1. Download a terminal program. For example [Termite](#) or [Hercules](#).

2. Open the Terminal program and go to settings. Choose the COM port on which the XN-115 controller enumerated*.

In most cases this is the highest available number in the COM port drop-down setting.

3. Set the COM port settings to the following values

Baudrate	115200	Flow Control	None
Parity	None	EOL	CR+LF
Data	Bits 8	Protocol	ASCII
Stop	Bits 1		

4. Set the COM port to "Open". **The controller is now ready for use.**

5. When sending consecutive API serial commands to the XN-115 controller, place a 50mS delay between each command.

*In case the XN-115 controller is not recognized as a COM port by the 3rd party device, a driver (Prolific PL2303) can be downloaded [here](#).

Functionality

The XN-115 runs our API which provides serial output when a specific sensor Element is triggered (for example a pick-up, or -motion sensor or touch button) and provides control over output Elements (for example controlling LED strips) via serial input commands. These API serial commands are typically used to create interactive Xperiences for Digital Signage.

The complete API Manual and additional helpful documents can be found on <https://nexmosphere.com/support-documentation>. To get you started, we've included some starter examples of our Elements and the corresponding API serial commands on the following pages.

3rd party devices and software

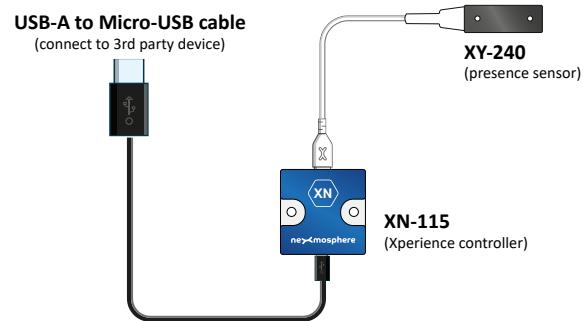
This Quick Start Guide offers a generic explanation of the setup and operation of the XN-115 Xperience controller. It does not cover information on how to integrate the Controllers, Elements and their API triggers in specific 3rd party devices or software. We have manuals available with step-by-step instructions on how to integrate Nexmosphere products with the products of our hardware, -and software partners. You'll find these on the support and partner pages of our website.

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Example 1 | Presence sensor

When an XY presence sensor connected to X-talk interface 001 detects a person in distance zone 4, the following API serial command is sent from the XN-115 to the 3rd party device: **X001B[Dz=04]**

When an XY-Presence sensor connected to X-talk interface 001 does not detect a person, the following API serial command is sent from the XN-115 to the 3rd party device: **X001A[1]**



Example 2 | RFID sensor

When tag 2 is picked up from an antenna connected to X-talk interface 001 the following API serial commands are sent from the XN-115 to the 3rd party device:

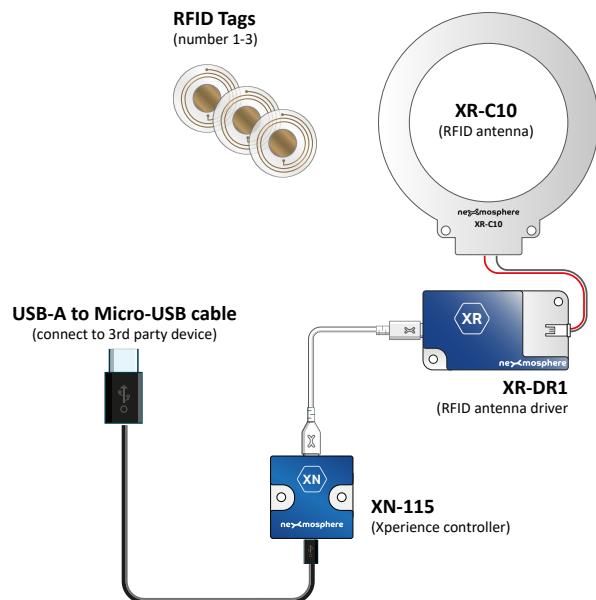
XR[PU002]

X001A[1]

When tag 1 is placed on an antenna connected to X-talk interface 001, the following API serial commands are sent from the XN-115 to the 3rd party device:

XR[PB001]

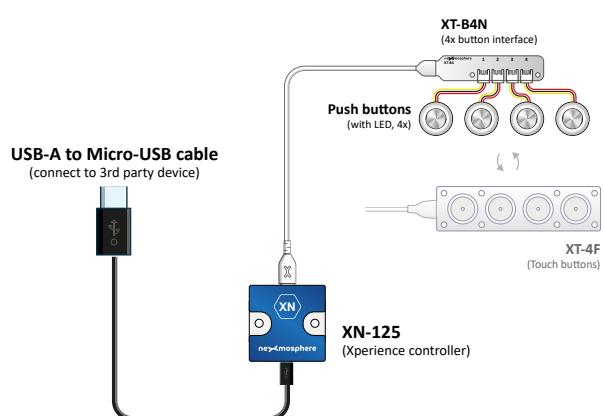
X001A[0]



Example 3 | Button input

When button 1 of a (touch) button interface connected to X-talk interface 001 is pressed, the following API serial commands are sent from the XN-115 to the 3rd party device: **X001A[3]**

When button 4 of a (touch) button interface connected to X-talk interface 001 is pressed, the following API serial commands are sent from the XN-115 to the 3rd party device: **X001A[17]**



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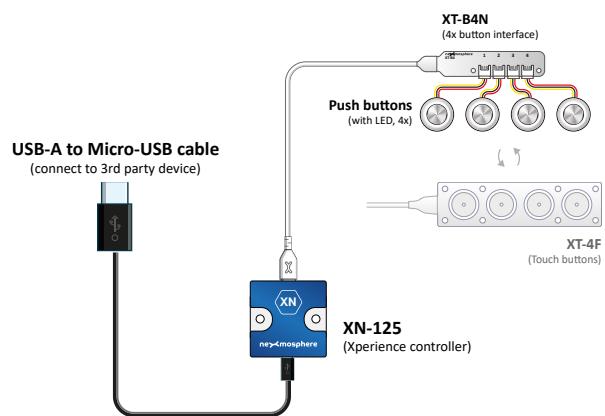
Example 4 | Button LED control

To set all button LEDs of a (touch) button interface connected to X-talk interface 001 to "on", send the following API commands from the 3rd party device to the XN-115 controller:

x001a[255]

To set all button LEDs of a (touch) button interface connected to X-talk interface 001 to "off", send the following API commands from the 3rd party device to the XN-115 controller:

x001a[0]



Example 5 | X-Wave LED control

To initiate an X-Wave LED pattern on an X-Wave connected to X-talk interface 001, send one of the following API example commands from the 3rd party device to the XN-115 controller:

40% brightness, color 0 (white), 0.5 second ramp time

x001b[240005]

Blue pulsing pattern (99% to 20%), 1.8 second ramp time

x001b[399c1801020c180018]

White wave pattern moving to the left

x001b[499018001200009]

