Cerise documentation EN

> Cerise in English, Cerise en Français, Changelog, Main site

Pour visionner ce manuel d'utilisation en Français, cliquez-ici Cerise documentation FR

🍒 Cerise Changelog

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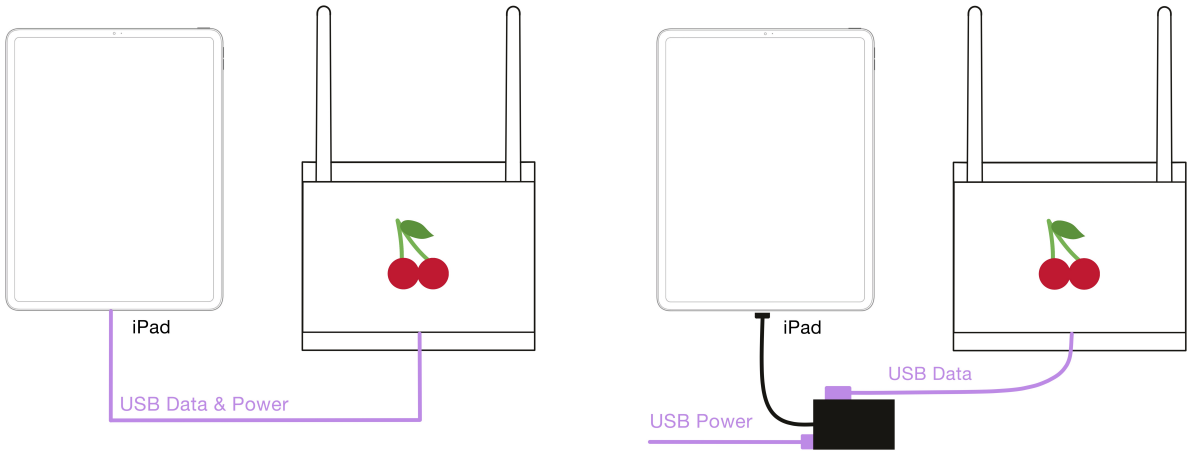
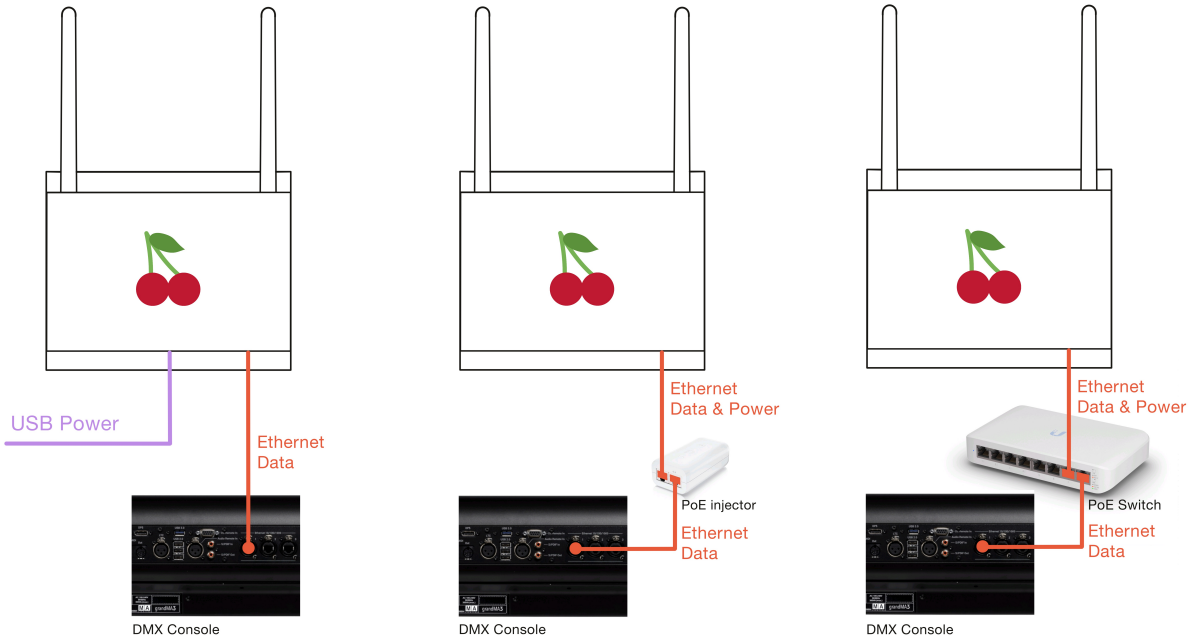
Getting started

Using Cerise with an iPad



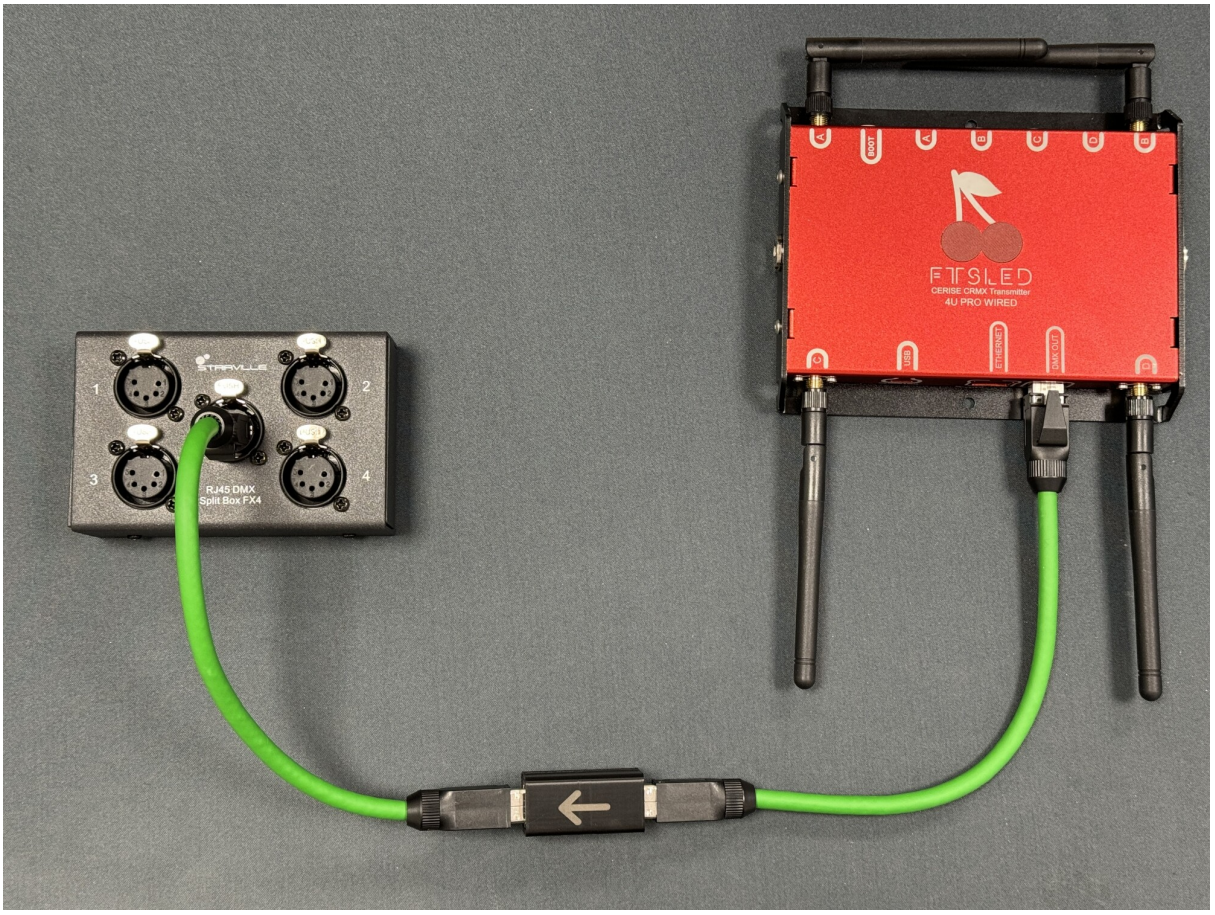
Cerise can be directly powered by an iPad or any computer you plug it into. Optionally you can use the included splitter to both charge your iPad and use Cerise.

Using Cerise with a Console



Cerise also works flawlessly with DMX consoles, just make sure you power it externally.

Using the wired DMX adapter



The Wired DMX breakout box is a passive adapter that takes the 4 universe DMX signal and splits it out to 4 individual XLR 5pin connectors. It only works if plugged in the “DMX Out” port.

It uses the same RJ45 connector as Ethernet to save on space but the conversion to DMX is done inside of Cerise itself.

There are two variants of the adapter, the SSNAKE and Stairville, the only difference is that stairville requires a small adapter as shown in the image above to work properly.

Product specifications

Model	1U	2U Pro	2U Pro Wired	4U Pro	4U Pro
CRMX universes	1	2	2	4	4
USB C connector	✅	✅	✅	✅	✅
Ethernet	❌	✅	✅	✅	✅
RF spectrum analyzer	❌	✅	✅	✅	✅

Power Over Ethernet	❌	✅	✅	✅	✅
Wired DMX universes out	❌	❌	4 isolated input/output via second RJ45 connector	❌	4 isolated input/output via second RJ45 connector
CRMX Linking Key	✅	✅	✅	✅	✅
USB Power Consumption	5V 0.3A	5V 0.4A	5V 1A	5V 1A	5V 1.5A
Total DMX universes	1	2	6	4	8

▼ **Detailed specs**

USB :

Max power draw : 5V 0.5A (1A for DMX out version)

USB revision compatibility : USB 1.1

Network speed via USB : 10mbps

Ethernet :

Link speed : 10/100

Power over Ethernet compatibility

- IEEE802.3af compliant
- Input voltage range 36V to 57V
- Mode A & B

UI :

1 Status LED / Update button

1 universe color LED / linking button per universe

DMX :

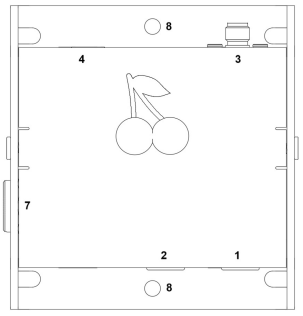
Output frequency 41Hz

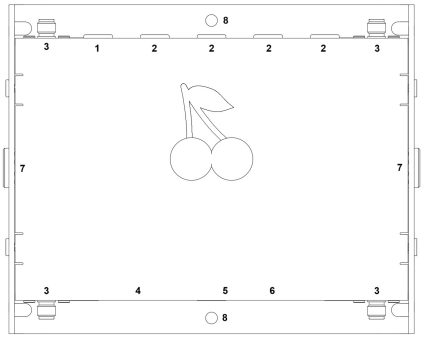
Merging type : LTP (Latest Takes Priority)

Network Protocols supported : simultaneous Art-Net & sACN

Product layout

1. Update button / status LED
   a. Green = Powered
   b. Cyan = USB link established
2. CRMX linking buttons
3. RP-SMA antenna connectors
4. USB type-C connector
5. Ethernet 10/100 RJ45 PoE connector
6. Wired DMX output
7. 1/4″ thread mounting point
8. M4 mounting holes (4.2mm)





How to update the device

1. Download and un-zip the latest firmware from here : https://drive.google.com/drive/folders/1X_QW4aECtIQzD6QfDS7VVZu9tz8psGlp
2. Get a hold of your Cerise transmitter and hold pressed the `1. Update button` (it is the recessed or the black one)
3. While holding the button down, plug the transmitter in your computer with a USB type-C cable
4. A new mass media storage device should appear called `RPI-RP2`, drag and drop your `CeriseFirmwareXXX.uf2` file onto it
5. Wait until the transfer is complete, then power cycle the unit

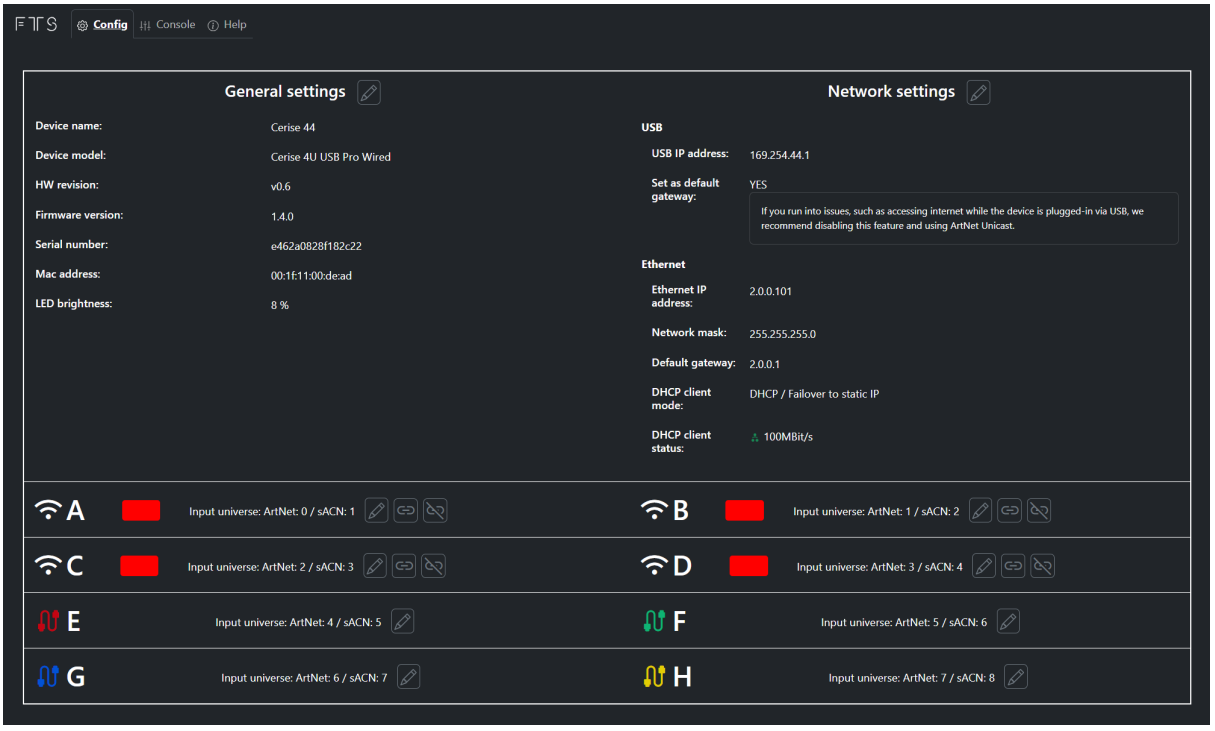
How to reset the device

💡 Warning ! This will erase all the previously saved settings on the device.

1. Download and un-zip the latest firmware as well as the reset file available here : https://drive.google.com/drive/folders/1kpcCN9JqtBnnWjQxqhmSa1zsbZIKkkyL
2. Update the device with the `CeriseReset_nuke.uf2` file onto it (this will totally erase the firmware and previously saved settings)
3. Wait until the update is complete, then power cycle the unit
4. Now update the device with the `CeriseFirmwareXXX.uf2` file onto it
5. Wait until the update is complete, then power cycle the unit
6. Your device is now reset

User Interface / Settings

Config



Cerise can be fully operated from it's WebUI, to access it, just type in the corresponding IP in a web browser, the default IP are `169.254.XX.1` if connected via USB or `2.00.101` if connected via Ethernet (note that these IP addresses can be changed in the WebUI. Feel free to navigate down to for more info.

We recommend leaving the settings by default if you are using Cerise with an iPad, all the default parameters are tested and work out of the box with most apps out there.

💡 Tip : You can disable status LEDs by setting the `LED brightness` to 0%.

Changing USB IP address

To change the Cerise's default USB IP address, just change the `USB IP address` field and power cycle the device.

You do not need to change any of the Ethernet related settings (Address, Network Mask, Default gateway ...).

Changing Ethernet IP address

To change the Cerise's default USB IP address, just change the `Ethernet IP address`, as well as the corresponding `Network mask` and `Default Gateway` field and power cycle the device.

💡 Note that your devices IP address will always have the last digit increased. If the transmitter's IP is `169.254.46.1`, your device (iPad, computer ...) will have the `169.254.46.2` address. Setting an IP ending in `x.x.x.255` might result in unknown behavior.

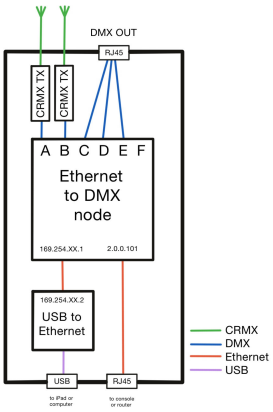
Certain browsers such as Safari have issues with `2.x.x.x` IPs, we recommend using Google Chrome.
If you've changed your IP to something else than `169.254.x.x` and you can't access the web page, make sure you've disabled your Wi-Fi settings.

USB default gateway (only for USB)

`Setting the USB default gateway` does exactly what it says, it configures a gateway for the USB interface, unfortunately, if your device is connected to the internet via a Wi-Fi or wired connection to your router, it will serve as a gateway too, causing conflicts. We recommend enabling this feature if you do not require internet while using the transmitter (i.e. you have a dedicated ipad for set) and wish to use Art-Net Broadcast or sACN protocols via USB.

💡 On version 1.6.x and up the option "USB set default gateway" is disabled by default.

Functional network diagram



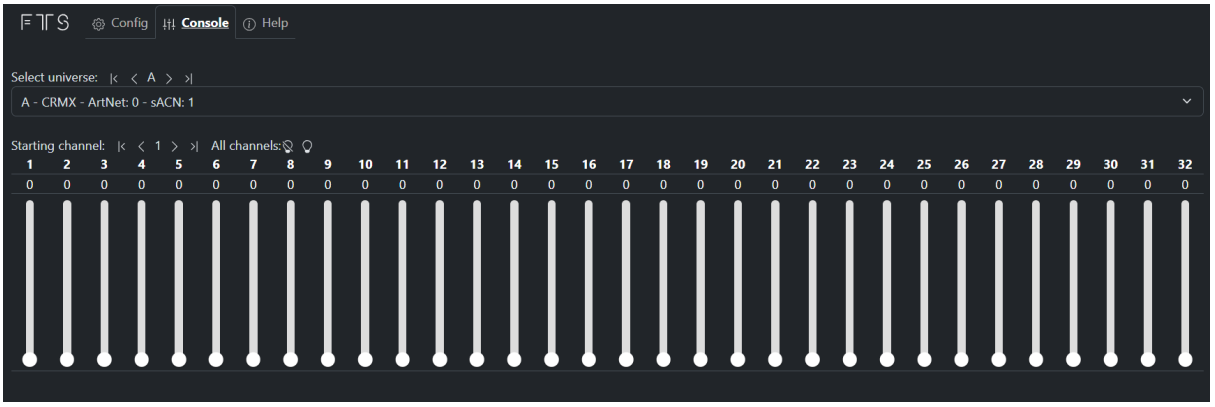
Cerise works like any other USB to Ethernet adapter and is supported on most platforms without the need to install any drivers.

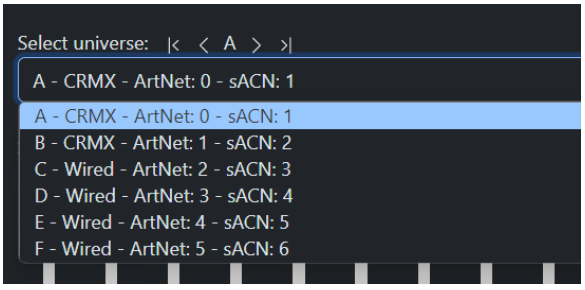
It creates its own dedicated network between its virtual network card and DMX node, with a default IP that begins with `169.254.XX.X`

The DMX nodes has 1 (1U USB) to 8 (4U PRO WIRED) outputs depending on the product version.

If you are using Cerise with an Ethernet adapter, the webUI's IP address is different from USB, by default it is `2.0.0.101`

Console





`Select universe` allows you to select outputs from A to F, the drop down allows you to easily know which universe you are viewing and whether it is a wired or wireless universe.

The console can be used as a basic fader board, if there is network data coming in via Art-Net or sACN it will be displayed and the faders will be rendered inoperable.

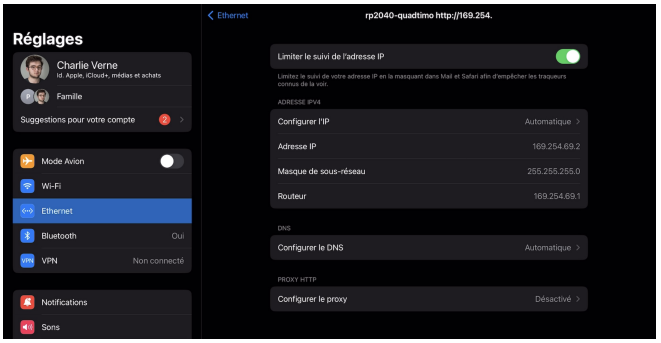
How to get your USB IP

On iOS

Go to Settings > Ethernet > Click on the device

Your default router IP should look something like `169.254.XX.1`

If you only see the device IP address (the one that ends in `XX.2`) just copy it and remember to change the 2 for a 1)



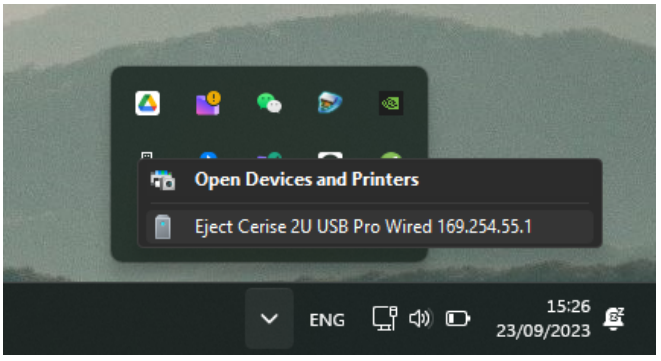
> 💡 On version 1.6.x and up the option “USB set default gateway” is disabled by default, therefore some of the fields might be blank. You still can find the IP address in the top of the page as the device name.

On windows

Go to Show hidden icons at the bottom right.

Then click on the device and printer icon.

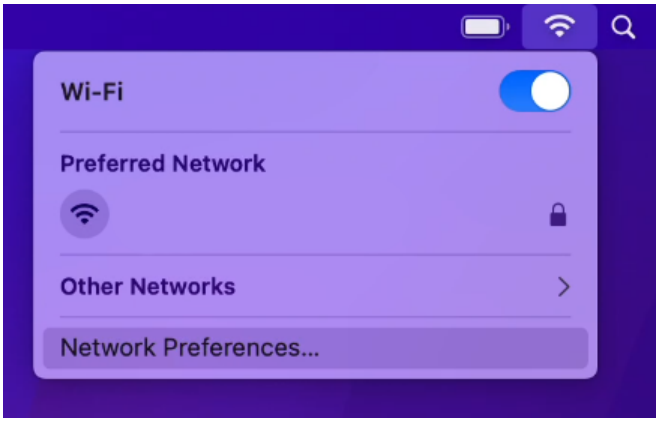
You should now have a device named with the USB IP pop up.

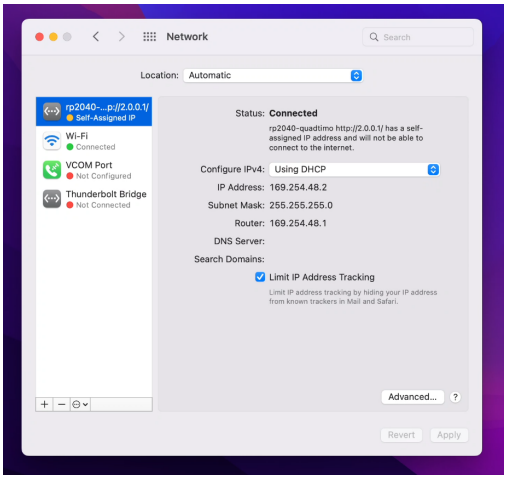


On Mac OS

Go to network preferences and click on the appropriately named device as shown below.

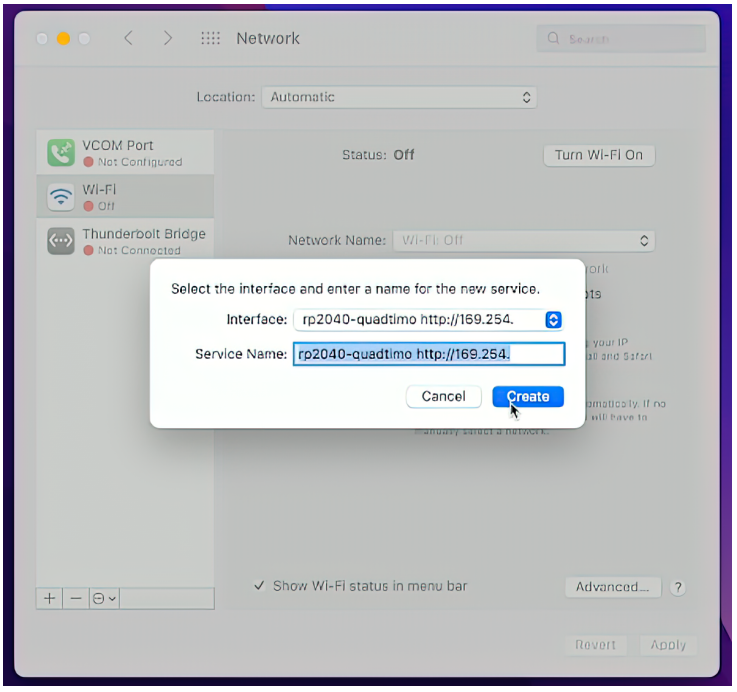
Your Cerise IP address will be the Router IP address, here the default IP is `169.254.48.1`.





If it doesn't show up, you might need to add it.

Click the `+` Icon at the bottom left and select the matching interface and press `Create`



How to set it up

Blackout Lighting Console

Art-Net Directed Broadcast

1. Plug-in your Cerise transmitter and disable Wi-Fi
2. Get your device IP address, for more details, refer to How to get my IP on iOS

   Go into Settings > Ethernet > Click on the device and copy the transmitter IP that looks like `169.254.XX.1` (if you only see an IP that ends in `XX.2`, just copy it and remember to change

the 2 for a 1)

3. Go to your web browser, we recommend Chrome for better compatibility
4. Type-in your transmitter IP and press enter
5. Enable the option that says “Set USB host's default gateway” and press the save button
6. Open Blackout Lighting Console

> 💡 Make sure to open the after you’ve plugged-in your transmitter. If the app is running in background, restart it once the transmitter is connected.

7. Before opening any project, go to Settings and enable “Ignore device Wifi status (BETA)”
8. Now navigate to your project, and in Link Status (top right), make sure “Art-Net” and “Directed Broadcast” are ticked

Art-Net Unicast

Step 5 is only needed if you want to keep internet access while the transmitter is plugged-in, it can be otherwise ignored.

1. Plug-in your Cerise transmitter and disable Wi-Fi
3. Go to your web browser, we recommend Chrome for better compatibility
4. Type-in your transmitter IP and press enter
5. *Disable the option that says “Set USB host's default gateway” and press the save button*
7. Before opening any project, go to Settings and enable “Ignore device Wifi status (BETA)”
8. Now navigate to your project, and in Link Status (top right), make sure “Art-Net” and “Unicast” are ticked
9. Now paste in the IP address you’ve copied in step 2

sACN

1. Plug-in your Cerise transmitter and disable Wi-Fi
4. Type-in your transmitter IP and press enter
5. Enable the option that says “Set USB host's default gateway” and press the save button
7. Before opening any project, go to Settings and enable “Ignore device Wifi status (BETA)”
8. Now navigate to your project, and in Link Status (top right), make sure “sACN” is ticked

Luminair

Art-Net Unicast

Step 5 is only needed if you want to keep internet access while the transmitter is plugged-in, it can be otherwise ignored.

1. Plug-in your Cerise transmitter and disable Wi-Fi
3. Go to your web browser, we recommend Chrome for better compatibility
4. Type-in your transmitter IP and press enter
5. *Disable the option that says “Set USB host's default gateway” and press the save button*
6. Open Luminair

> 💡 Make sure to open the after you’ve plugged-in your transmitter. If the app is running in background, restart it once the transmitter is connected.

7. Navigate to Connections > Art-Net > Output Node
8. Untick “Broadcast”
9. Under IP Address, paste the IP Address you’ve copied in step 2

Art-Net Broadcast

1. Plug-in your Cerise transmitter and disable Wi-Fi
3. Go to your web browser, we recommend Chrome for better compatibility
4. Type-in your transmitter IP and press enter
5. Enable the option that says “Set USB host's default gateway” and press the save button
7. Navigate to Connections > Art-Net > Output Node
8. Tick “Broadcast” box
9. Your transmitter should appear in the list of devices, select it

sACN

1. Plug-in your Cerise transmitter and disable Wi-Fi
3. Go to your web browser, we recommend Chrome for better compatibility
4. Type-in your transmitter IP and press enter
5. Enable the option that says “Set USB host's default gateway” and press the save button
7. Navigate to Connections > sACN
8. Tick “U1 Enabled” box

💡 If you do not know which one you should select, here's a quick summary :

Art-Net tends to be the most common option, it has limitations when using a large amount of DMX universes with basic switching gear. Also it's universe enumeration begins at 0 which might be confusing.

sACN tends to deal better with those larger amounts of data given that it uses Multicast. Also it's universe enumeration begins at 1.
If you use less than a dozen universes, both should do fine.

Broadcast allows to not have to type in the IP address of the transmitter but will block all internet/Wi-Fi traffic.

Unicast needs you to manually type in your transmitter IP but it allows you to also use your devices Wi-Fi to browse the internet at the same time.

Frequently Asked Questions

Does Cerise work on my iPad with a lightning connector ?

In theory yes, but certain older iPads tend to run into issues that are difficult to diagnose and not recommended for set use.

If you wish to try at your own risk, you will need to use an Apple Lightning camera adapter : https://www.apple.com/shop/product/MK0W2AM/A/lightning-to-usb-3-camera-adapter

On what device will Cerise work ?

So far we've tested and validated :

- Windows 10 & 11
- Apple's Mac with an Intel processor
- Linux
- iPad with type-C connector (iPad Mini, Pro and 10th gen) and lightning connector

It doesn't work on :

- Samsung Smartphone

I can't seem to detect Cerise on my iPad

The first step to check is that the BOOT/Update LED is Cyan, if it's green, this means you don't have a USB connection between Cerise and the iPad.

This could be due to various reasons :

- Faulty USB cable (make sure to use a cable that can at least do both USB 2.0 communication as well as power)
- Certain docks/dongles will have a USB type-C input connector for a charger, in certain cases they do no support data, the best way around is to thy with one of the USB A ports with a type-A to type-C cable
- Certain docks/dongles will also have a built-in ethernet card which might conflict with Cerise

I've changed my IP address but I can't connect anymore

First, make sure you are using a compatible browser, we recommend Google Chrome as we've ween odd behaviors with both Safari and Firefox.

If you still can't connect, try on a computer. If this doesn't work, proceed to a factory reset.

Can I use CRMX Toolbox with Cerise ?

Yes, just note that Bluetooth is disabled by default so you'll need to enable it.

To do so, press the link button in the following sequence : 1 short press and immediately 1 long press (3 seconds).

You should now see a Bluetooth device showing up in CRMX Toolbox.

If this doesn't appear, perform the action a second time.

Once you've changed your settings, make sure to disable Bluetooth as this might result in random light flashes to linked fixtures.

This can be done bien repeating the same button sequence as to enable it.

I don't have CRMX linking key on my Cerise

The linking key can be accessed via the WebUI right next to the link and unlink buttons.

If the button doesn't show up, you might need to update the CRMX TimoTwo module(s) inside Cerise.

To do this you will need to enable Bluetooth and connect with CRMX Toolbox, in the device section of the app, you should have the option to update.

> 💡 Note that you might have to do multiple updates as there is one TimoTwo per universe.

FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.