XILICA

PLUTO 1208
FIR PROCESSOR
Network
Power
IN
OUT
1 2 3 4 5 6 7 8 9 10 11 12

XILICA

PLUTO 1616
FIR PROCESSOR
Network
Power
IN
OUT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

XILICA

PLUTO 1810
FIR PROCESSOR
Network
Power
IN
OUT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

XILICA

PLUTO 804USB
FIR PROCESSOR
Network
Power
IN
OUT

XILICA

PLUTO Series
User Manual

XILICA

Important Safety Information

1. READ THESE INSTRUCTIONS
All the safety and operating instructions should be read before the product is operated.

2. KEEP THESE INSTRUCTIONS
The safety and operating instructions should be retained for future reference.

3. HEED ALL WARNINGS
All warnings on the product and in the operating instructions should be adhered to.

4. FOLLOW ALL INSTRUCTIONS
All operating and use of instructions should be followed.

5. DO NOT USE THIS APPARATUS IN WATER.
Do not use the product near water. For example, near a bathtub, wash bowl, kitchen sink, or laundry tub,
in a wet basement, or near a swimming pool, and the like.

6. CLEAN ONLY WITH DRY CLOTH.
Unplug the unit from the wall outlet before cleaning.

7. DO NOT BLOCK ANY VENTILATION OPENINGS
Slots and openings in the cabinet back or bottom are provided for ventilation, to ensure reliable operation of the limit and
to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by
placing the product on a bed, sofa, rug, or similar surface. This product should never be placed near or over a radiator or
heat source. This product should not be placed in a built-in installation such as a bookcase or rack unless proper
ventilation is provided or the manufacturer's instructions have been adhered to.

8. DO NOT INSTALL NEAR ANY HEAT SOURCES
This product should be situated away from heat sources such as radiators,
stoves or other products (including amplifiers) that produces heat.

9.DO NOT DEFEAT THE SAFETY PURPOSE OF THE POLARIZED OR GROUNDING-TYPE PLUG
A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades
and a third grounding prong. The wide blade or the third prongs are provided for your safety. If the
provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

**10. PROTECT THE POWER CORD FROM BEING WALKED ON OR PINCHED PARTICULARLY AT PLUGS,
CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT FROM THE APPARATUS.**

11. ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.

**12.USE ONLY WITH CART, STAND, TRIPOD, BRACKET, OR TABLE SPECIFIED BY THE MANUFACTURER, OR SOLD WITH THE
APPARATUS. WHEN A CART IS USED,USE WITH CAUTION WHEN MOVING THE CART/APPARATUS TO AVOID INJURY
FROM TIP-OVER.**
Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to
someone, and serious damage to the appliance. A unit and cart combination should be moved with care. Quick stops,
excessive force, and uneven surfaces may cause the product and cart combination to overturn.

13.UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.
For added protection for this unit during a lightning storm, or when it is left unattended and unused for long
periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent
damage to the unit due to lightning and power surges.

**14.REFER ALL SERVICING TO QUALIFIED PERSONNEL. SERVICING IS REQUIRED WHEN THE APPARATUS HAS BEEN
DAMAGED IN ANY WAY. SUCH AS, WHEN THE POWER SUPPLY CORD OR PLUG IS DAMAGED, LIQUID HAS BEEN SPILLED,
OR OBJECTS HAVE FALLEN INTO THE APPARATUS, THE APPARATUS HAS BEEN EXPOSED TO RAIN OR MOISTURE, DOES
NOT OPERATE NORMALLY, OR HAS BEEN DROPPED.**

15.WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

**16.APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS,
SUCH AS VASES,SHALL BE PLACED ON THE APPARATUS.**

**17.The apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protectective earthing
connection.**

**18.Where the MAINS plug or an appliance coupler is used as the disconnect device,the disconnect device shall remain
readily operable.**

CAUTION	ATTENTION
RISK OF ELECTRIC SHOCK DO NOT OPEN	RISQUE DE CHOC ELECTRIQUE NE PAS ENLEVER
DO NOT EXPOSE TO RAIN OR MOISTURE	NE PAS EXPOSER A LA PLUIE NI A L'HUMIDITE

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, GROUNDING OF THE CENTER
PIN OF THIS PLUG MUST BE MAINTAINED.

ATTENTION:
POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, FONDRE DE LA
GOUPILLE CENTRALE DE CETTE PRISE DOIT ÊTRE MAINTENU.

The lightning flash with arrowhead symbol,
within an equilateral triangle,is intended to
alert the user to the presence of uninsulated
"dangerous voltage"within the product's
enclosure that may be of sufficient magnitude
to constitute a risk to persons.

The exclamation point within an equilateral
triangle,is intended to alert the user to the
presence of important operating and
maintenance(servicing)instructions in the
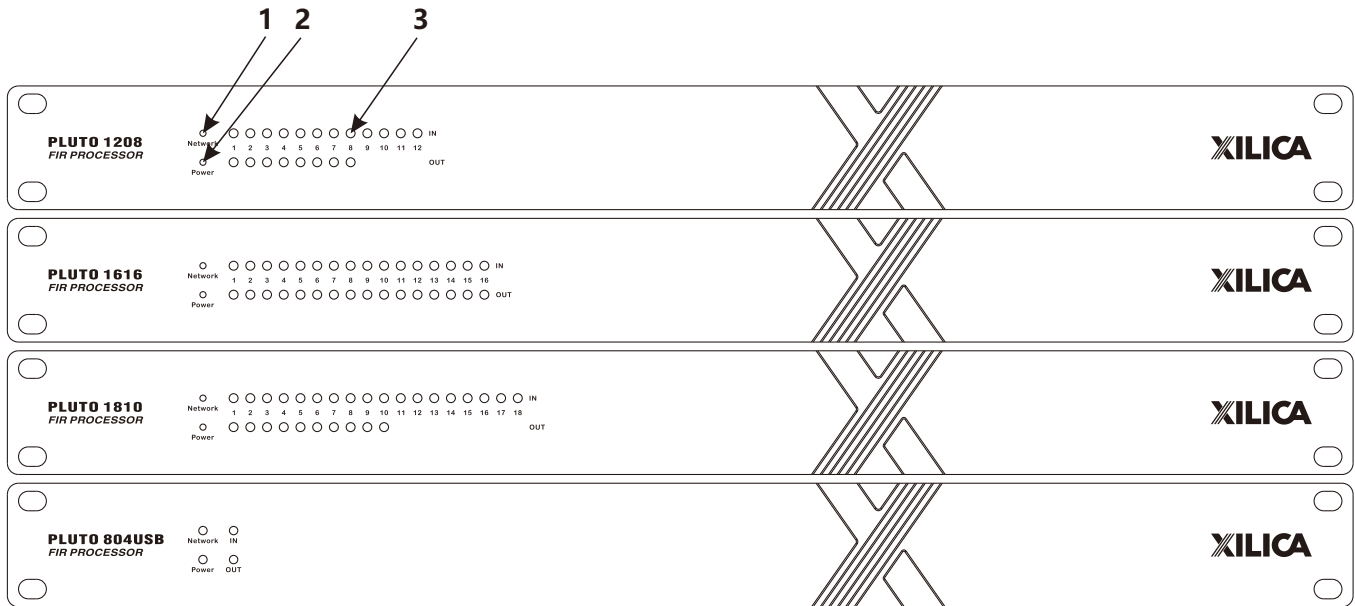literature accompanying the applicance.

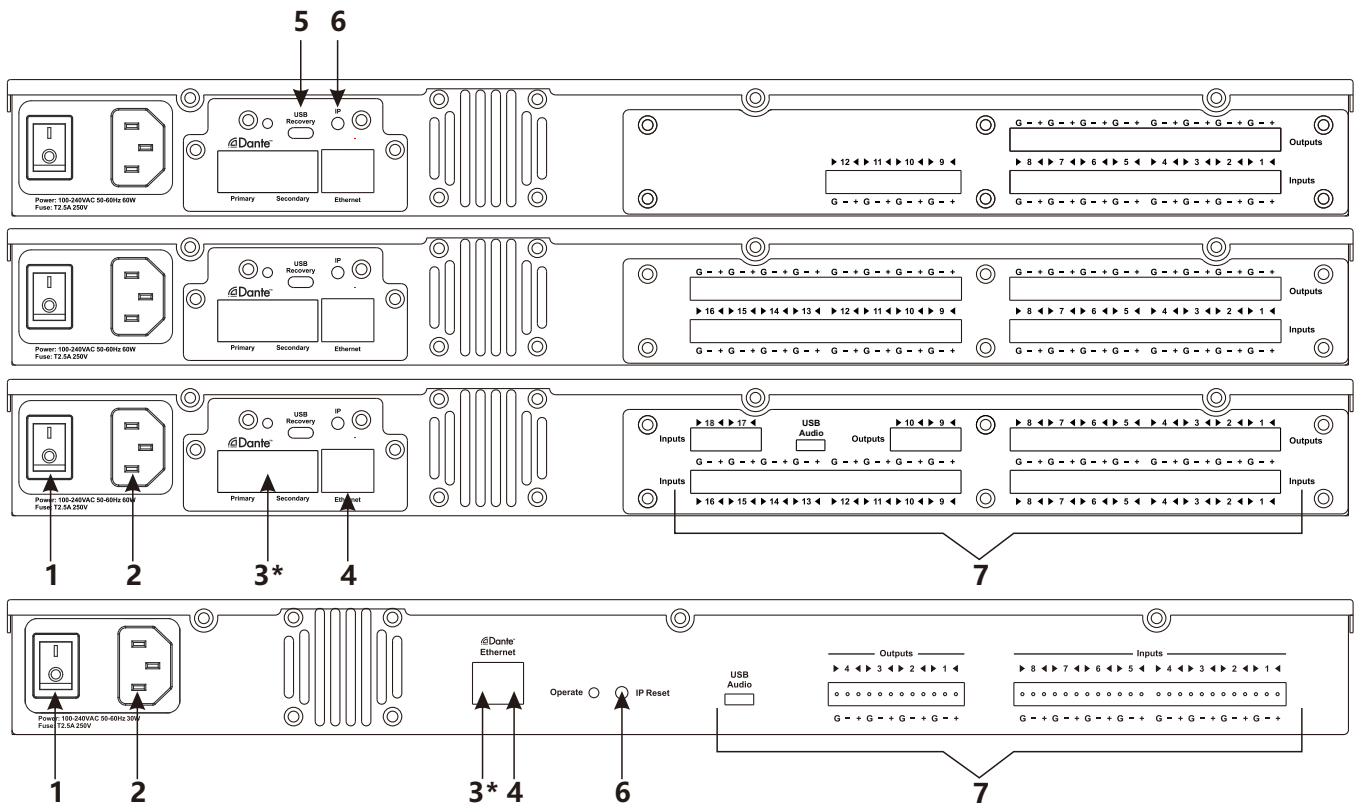Portable Cart Warning

Table of Contents

Front Panel

1 Network: When the machine is connected to the network,the yellow light will light up

2 Power: Displayed after the machine is powered on

3 Signal: Displayed after the machine has an audio signa

Rear Panel

Rear Panel

1	**Power switch:**	Power ON/OFF the processor using this switch.
2	**Power supply:**	Insert the plug connector into the socket. Connect the cord into a 100-240 VAC 50-60Hz power source.
3*	**Dante™ module:**	Optional user-installed MOD-Dante-ETH module transports 64x64 I/O of Dante network audio bi-directionally over a standard RJ45 (Ethernet)cable. The PLUTO 804USB is a 4-channel Dante by default.
4	**Ethernet:**	Connect the devic to the network using a standard RJ45(Ethernet)cable.
5	**USB Recovery:**	If the processor is corrupted, the USB Recovery port is used to recover the processor. Please refer to Xilica Designer help file or Xilica FAO for further assistance.
6	**IP Reset:**	A button used to reset the IP Address.
7	**In / Out:**	Audio input and output interface.

Technical Specifications

- **Channel:** 16 In / 16 Out, 18 In / 10 Out, 12 In / 8 Out, 8 In / 4 Out
- **DSP:** 64-bit SC587 ADI dual-core high-performance digital processing chip
- **ADC / DAC:** High-performance 32-bit
- **Maximum level:** +20dBu
- **Frequent Response:** +/- 0.1dB (20 to 20kHz)
- **Dynamic Range:** 110dB typ (unweighted)
- **Sampling Rate:** 48/96kHZ
- **Propagation Delay:** 4ms/2ms(48/96kHZ)
- **CMRR:** 100dB (50 to 10kHz)
- **Crosstalk:** <-100dB @ 1kHz
- **THD:** 0.002% (1kHz@ +4dBu)
- **Interface:** Phoenix 3.5mm, RJ45 Ethernet, IEC power socket
  Type C USB Sound Card(only PLUTO 1810,PLUTO 804USB)
- **Interface mode:** Balance
- **Power:** 100-240Vac 50-60Hz
- **Dimensions:** 19"x1.75"x12"(483x44.4x305.5mm)
  PLUTO 804USB: 19"x1.75"x9.33"(483x44.4x237mm)
- **Weight:** PLUTO 1616: 8.87 lbs / 4.03kg   PLUTO 1810: 8.56 lbs / 3.89kg
  PLUTO 1208:8.4 lbs / 3.82kg   PLUTO 804USB: 6.6 lbs / 3kg

Device Connectivity

Xilica processors and control devices run on a network based infrastructure and are set up and controlled by a host computer using the Xilica Designer software.

What's in the Box

- Hardware device
- 100-240 VAC 50-60Hz power cable

What you need to Provide

- Computer

- Network interface(Router,PoE switch)
  A router is used for IP assignment and easy connectivity to computer and control devices.
  A PoE switch is used for controllers if local power is not used.

- Ethernet cables
  All wired connections use a standad RJ45 Cat 5/6 (Ethernet) connection.

Connecting Devices

A network connection can be made between the computer and processor using:

A) DHCP enabled Router or Server/Router combination (Recommended)
With DHCP enabled routers and servers, the processor will automatically obtain the IP address upon power up and connection. When other Xilica wall controls will also be used, it is recommended to use a router and PoE switch. This combo provides DHCP as well as power to the wall controls. Linksys routers and Netgear switches are recommended.

B) A non-DHCP direct connection or indirect connection via an Ethernet switch
When the processor is connected directly to a computer or indirectly via a switch/hub and DHCP is not available, the connection process is not automatic.

A) Connecting using a DHCP enabled router / server

Note: DHCP enabled Router/switch gear should be turned on first, with all Ethernet cables connected to the hardware prior to Powering ON the hardware. This will allow for proper IP address distribution to the Hardware.
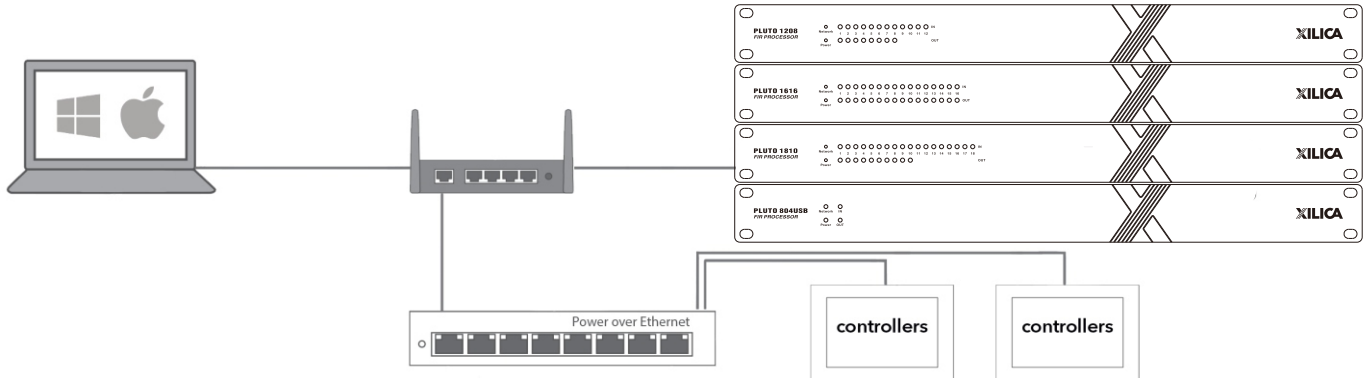
First, Power ON the router/switch gear.
Then connect an Ethernet cable from the host computer to the DHCP enabled router.

Connect an Ethernet cable from the router to the device.
Then connect the external power supply to the device.

Switch ON the processor device.

B) Non-DHCP direct connection or indirect connection

Non-DHCP connections are not automatic. Non-DHCP connections must be manually configured Please refer to Xilica Designer help file or Xilica FAQ for further assistance.
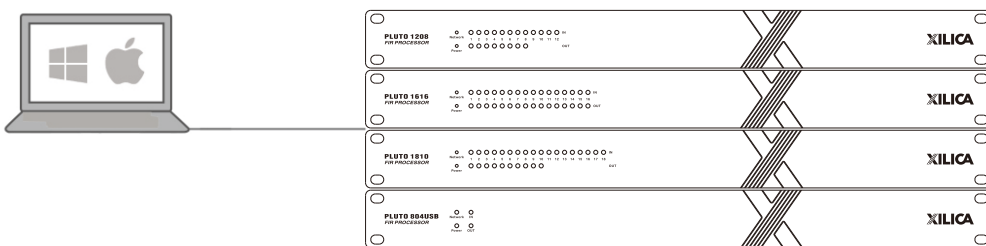
Front Panel Navigation

Panel LED:

Green light when there is a signal, red light when the signal is overloaded.

Install Xilica Designer

The Xilica Designer software provides optimum configuration of Xilica Series processors and it also configures Xilica's programmable remote controls, configures and manages any networked Dante device, and provides universal third-party device control integration.

Mac OS X Installation

System Requirements

Mac OS X 10.8 or later
Processor 1GHz or higher

500MB of available space

1GB graphics card

4GB RAM

1. Download the latest version of Xilica Designer from the Xilica website (www.xilica.com).

2. Open the downloaded .zip file

3. Then open the **XilicaDesigner.mpkg** file.

4. An installation window will appear. Read and follow each step to proceed.
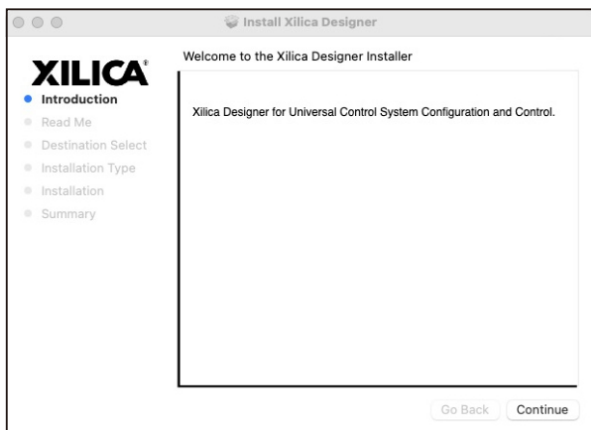
5. Once completed, the installation window will display: The installation was successful.
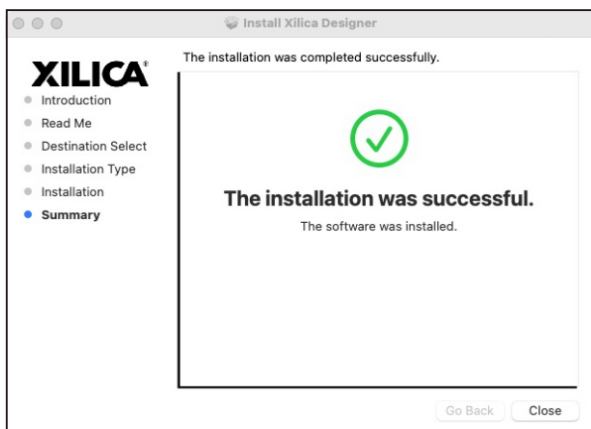
6. The Xilica Designer software is now installed.

Windows Installation

System Requirements
Windows 7 or higher
Processor 1GHz or higher
500MB of available space
1GB graphics card
4GB RAM

1. Download the latest version of Xilica Designer from the Xilica website (www.xilica.com).
2. Open the downloaded .zip file.
3. Then open the **XilicaDesigner.exe** file.
4. An installation window will appear. Click **Install** to continue.
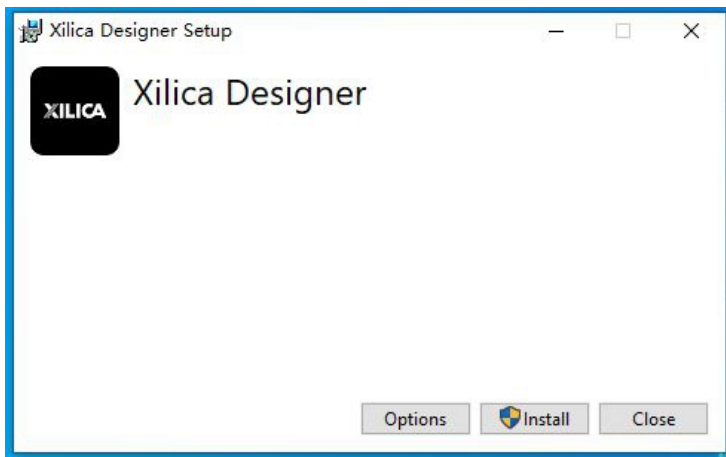
5. Allow the program to complete the installation process. This may take a several minutes.

6. When complete, Windows will ask for permission to allow firewall access. The suggested setting is to allow Xilica Designer to communicate in Private networks, such as home or work. Allow access to public networks at your own discretion. Check the appropriate boxes, then click **Allow Access** to finish.
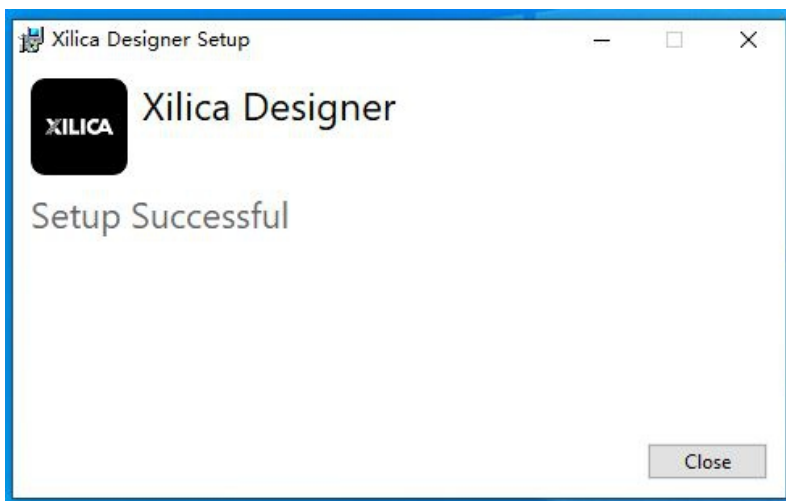
7. The Xilica Designer software is now installed.

Launch Xilica Designer

Locate the Xilica Designer application on your Desktop or Applications folder.
Double click the application to launch the software.
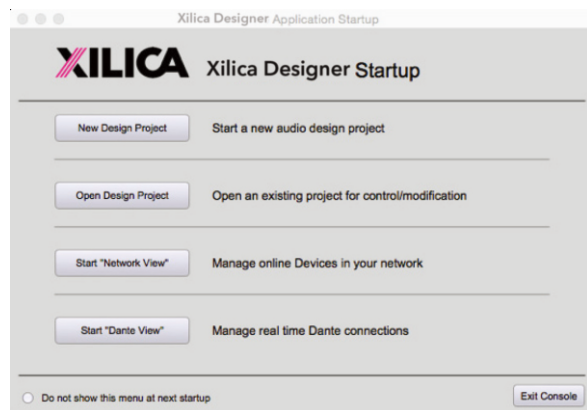
You can create a **New Design Project, Open Design Project, Start Network View,**
      or Start Dante View.

Network View

Network View displays all processors and control devices on the network. Network View displays device information including, the device connection status, computer IP address, device IP address, device name, manufacturer and the firmware version.

In Network View, you should see your processor(s) listed. At the top left of each device block is a **device connection indicator.**

Green: The device is connected and operational.

Yellow: The device is connected and online, but not operational. Hovering over the network indicator will display a pop-up message of identified problems. (Normally this would indicate that no device design is loaded).

Red: The device is not connected and offline. There is no communication between Xilica Designer software and the device.Please check all cables,connections and power.If the processor is performing a firmware upgrade or is in the process of rebooting,this may be a temporary offline interruption.

At times you may just see an exclamation mark (!). This indicates that a firmware upgrade is available. Normally this is not an issue unless there are updated modules in the project file that the outdated firmware does not support.

Firmware Upgrade

Please note that using an older version of software with a newer firmware or newer software with an older firmware will work but some of the features may not be available and bugs could exist. **We recommend upgrading the software and firmware to the latest versions.**

Before you begin,**check your software and firmware versions.**

To check the current device firmware version, make sure that your device is connected and online. In Network View, devices that have a Firmware Upgrade available will display a yellow triangle with an exclamation mark. The device Firmware version is also listed in the device block.

To view the current software version,click on the **About** tab at the top of the software.

Matching the Firmware

To assist you in determining which firmware file is appropriate for your device, refer to the chart below. Note: The file structure may be different from the date that this list was created. Always check the Xilica website (www.xilica.com) to keep updated.

#_#_# Represents the 3 digit version code of the firmware update.

(SOLARO_#_#_#.img)	Solaro QR,FR
(X2_#_#_#.img)	X2
(XIO_#_#_#.img)	XIO8、XIO16
(XTOUCH_#_#_#.img)	XTouch50、XTouch80
(NEUTRINO_#_#_#.img)	Neutrino A,A-D(AES),A-N(Dante),A-ND(Dante,AES)
(UNO_#_#_#.img)	Uno-U,U-D(AES),U-N(Dante),U-ND(Dante,AES)
(NEUTRINO-AEC_#_#_#.img)	Neutrino AEC
(UNO-AEC_#_#_#.img)	Uno AEC
(RIO_#_#_#.img)	Rio-N,NX
(NEUPANEL MINI_#_#_#.img)	Neupanel Mini K1、K4、S4、S8、S4K1

Firmware Upgrade Procedure:

Save any design files from the device onto your computer as all programmed data on the device will be erased during the upgrade process. After the firmware upgrade is completed, the design file can be loaded back into your device.

1. The device must be online and operational (green ON indicator) to perform a firmware upgrade

2. Download the latest firmware version for your device from the Xilica website(www.xilica.com).

3. In Network View, right click the device block and select **Firmware Upgrade.**
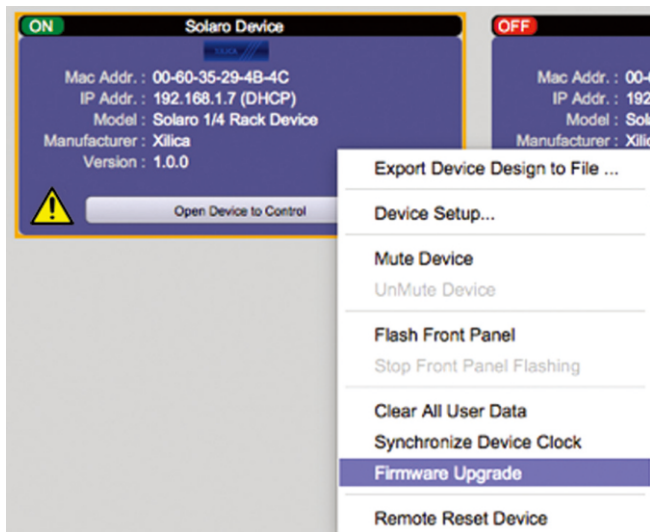
4. A pop-up warning will appear stating that the Firmware Upgrade process will erase all data from your device. Click **OK** to proceed.
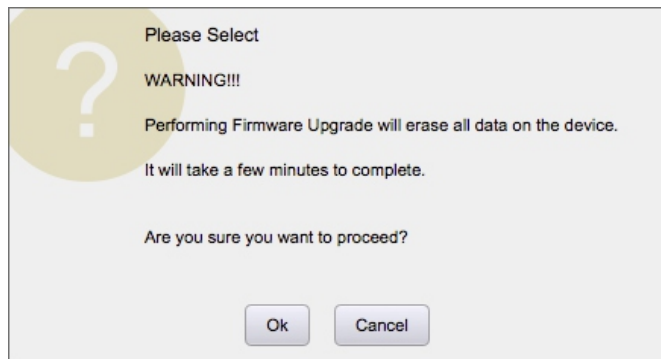
5. Navigate to the file in which you downloaded the new Firmware file. Click **Open.**

6. A status bar in the device window will monitor the Firmware upgrade progress.
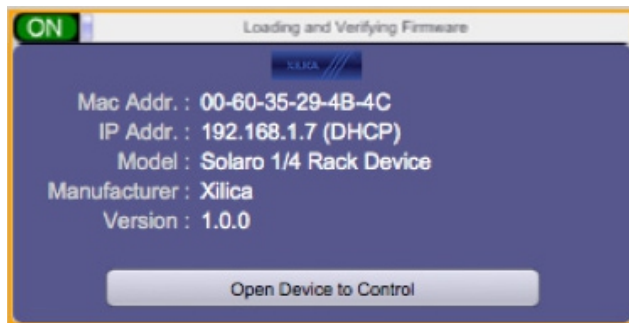
Once the Firmware file has been loaded to the device, the device will automatically restart and update its internal data. This may take several minutes. During this period, the device network indicator will turn RED and appear offline.

DO NOT POWER OFF THE DEVICE. Powering off the device during a Firmware Upgrade can result in a complete corruption of the processor. If this happens, a **USB Firmware Recovery** must be completed. (Please refer to Xilica Designer help file or Xilica FAQ for further assistance).

Once the firmware upgrade is completed, the device will display a green ON indicator.

Project View

You can create a new project in one of two ways:

Auto-configuration

If your device is listed in network view, select your device and click Create New Project with Selected Device(s) at the top right of the software. If the device is connected and operational (Green ON indicator), the Xilica PLUTO device will automatically be configured according to the hardware card configuration.
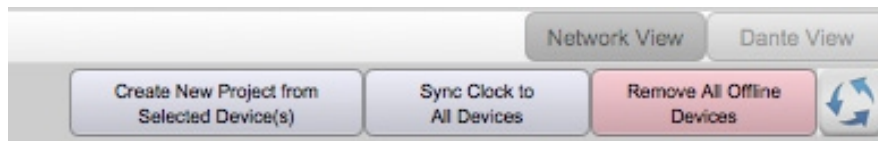
Blank project

Alternatively, click **File > New Project.**

When creating a blank project, Xilica Designer will ask you which DSP series you are using. Select the appropriate option.
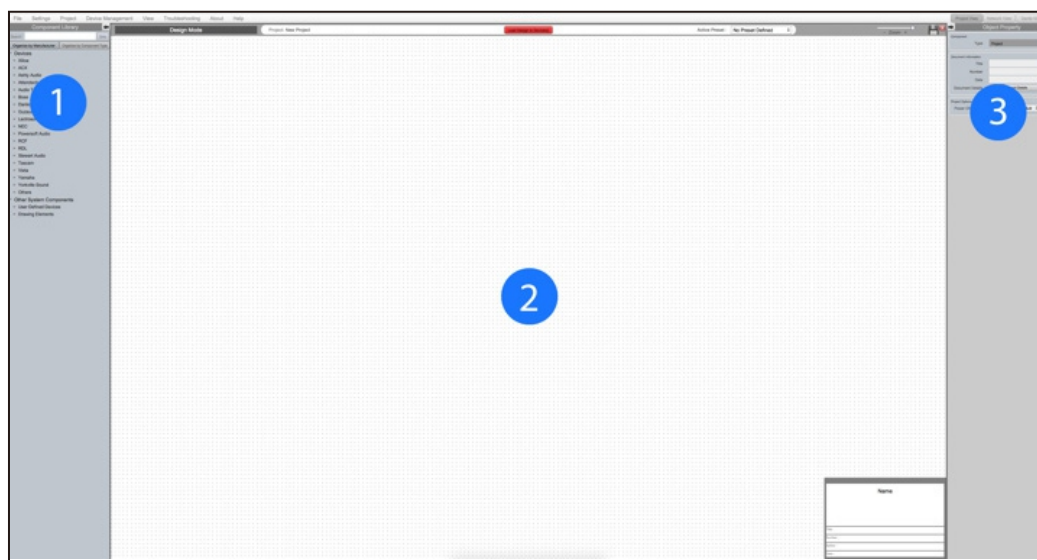
1. Component Library Menu
This menu displays a list of devices and design modules that you can use in your project.

2. Word Area
The work area provides a space to design and configure devices.

3. Object Property Menu
This menu allows you to customize the object properties in the design.

Create a Design

For the example, a single DSP hardware block will be used, but a design can be done with multiple DSP hardware items.

Projects can be designed Offline (no devices connected) and the design can be loaded to your devices at a later time.

1. From the Component Library, drag & drop the DSP module onto the work area.
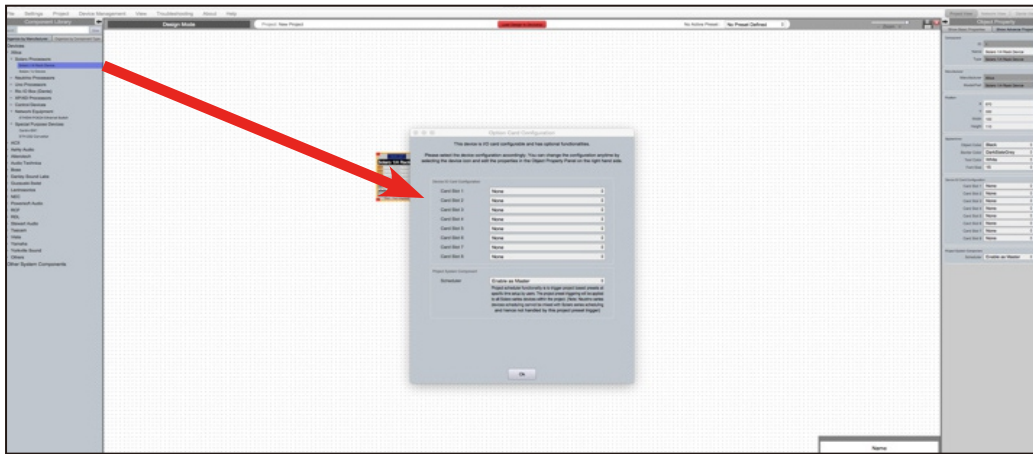
2. An Option Card Configuration box will appear.Use the drop down menus to customize your PLUTO DSP device and click **OK** when complete.

Note: The device card configuration must match the hardware card configuration.Mismatched cards will not have any functionality.I/O cards can be reconfigured using the Object Property Menu.

3. The PLUTO device will be configured accordingly.
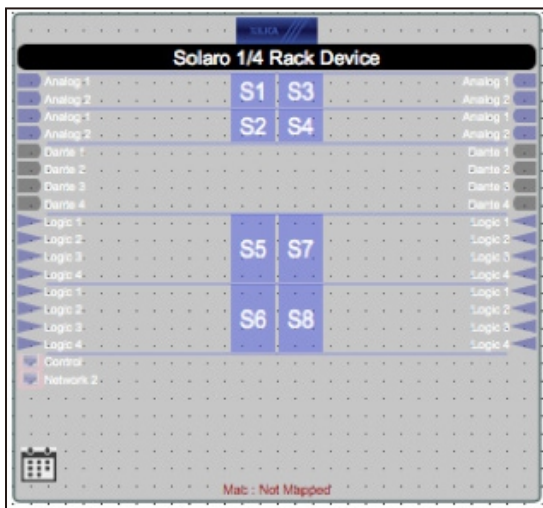
4. Select the DSP module to highlight it. In the **Object Property menu,** the device properties can be customized. Note: Object Properties vary depending on the object selected.
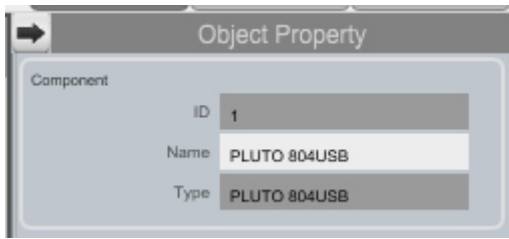
5. Double click the DSP module to open the design schematic. Resize the window by dragging the corner of the window.
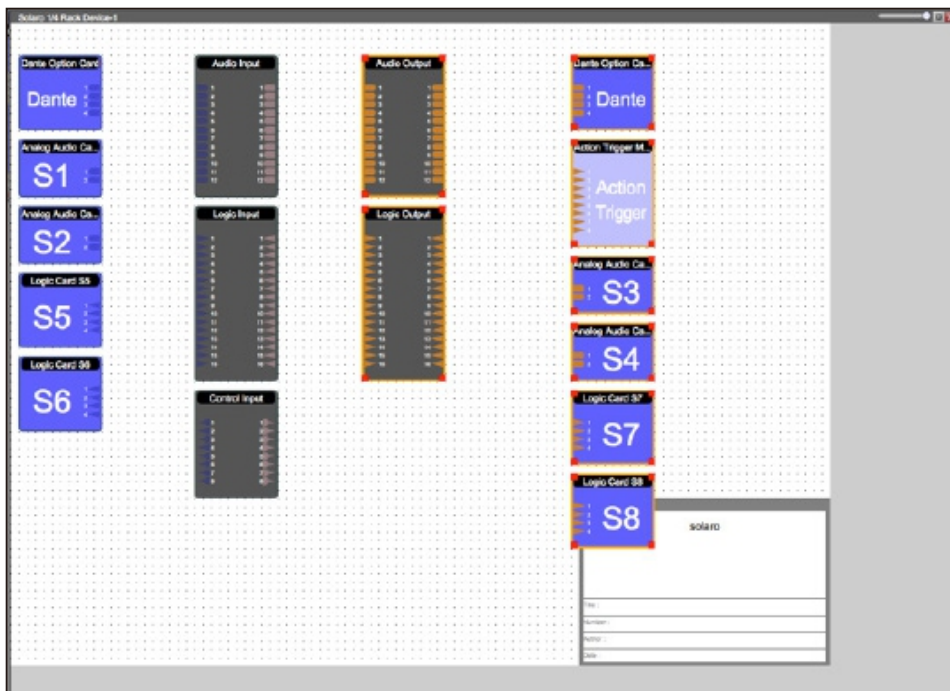
6. To space out your work area, click & drag a selection box around the output modules and use the cursor arrows or mouse to move the modules to the right.
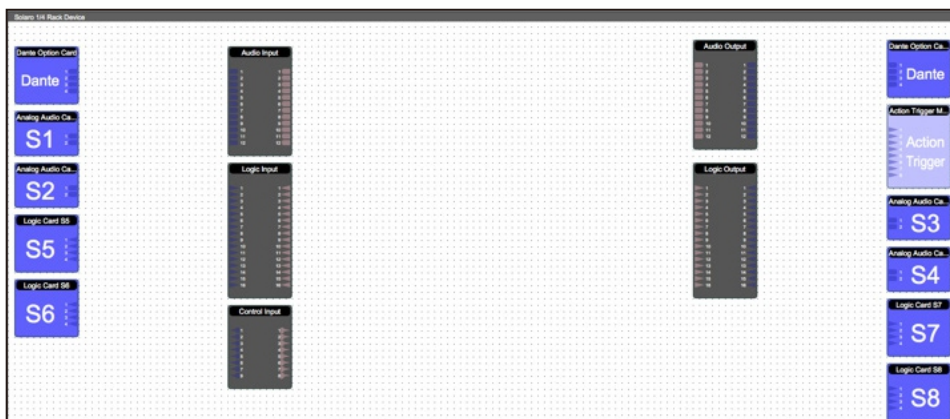
When this window is selected, the Component Library menu displays a variety of **DSP modules.**

7. Click and drag a DSP module into the device schematic window.
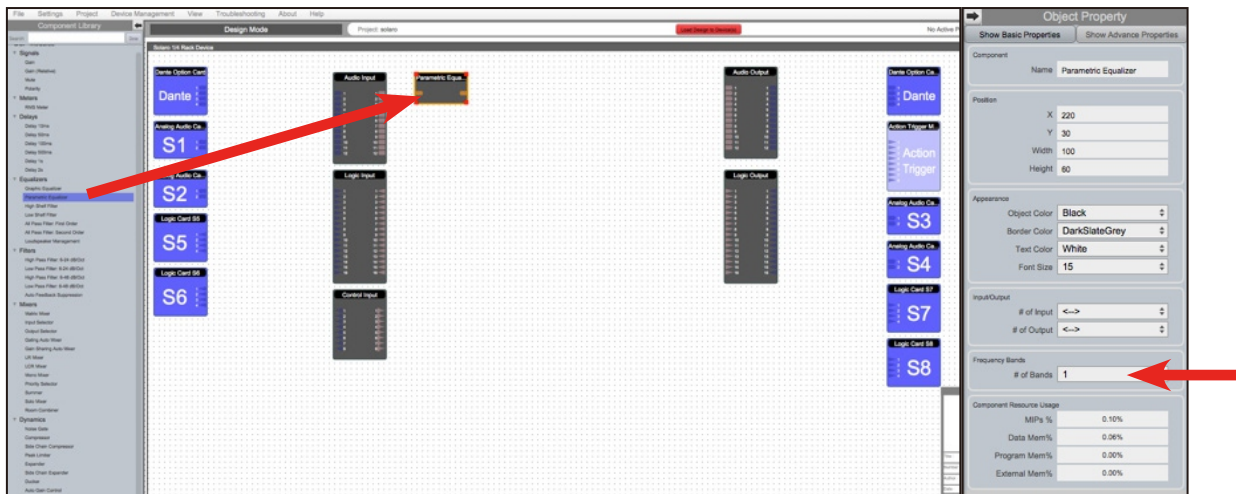
In the example, a PEQ was added.

8. In the Object Property menu, you can customize the module.
   For the PEQ module, up to 8 bands are available.

9. Double click the DSP module to open it.
   In the PEQ module, the number of bands determined in the object property menu is reflected
   in the DSP module.
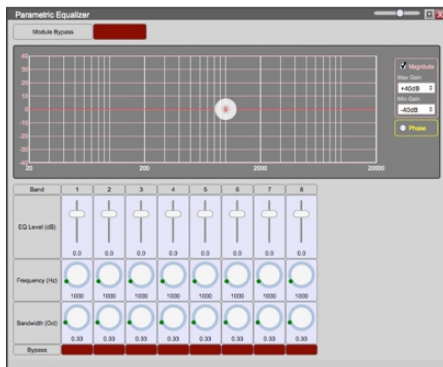
10. From the input module, click & drag a wire to the DSP input node.
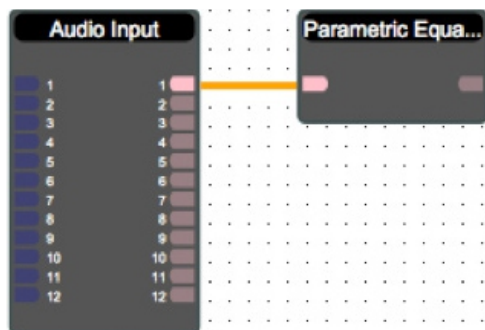
11. Drag & drop more DSP modules, then wire them accordingly.
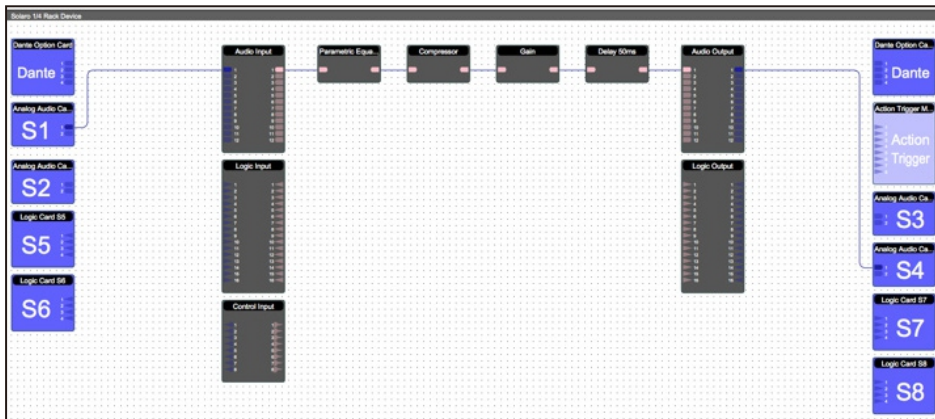
Processing chains and objects can be easily duplicated by selecting the desired object(s), **Ctrl + C** to copy, then **Ctrl + V** to paste the items.
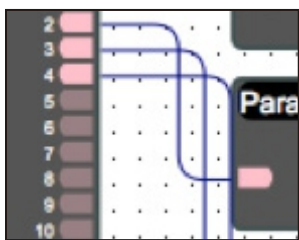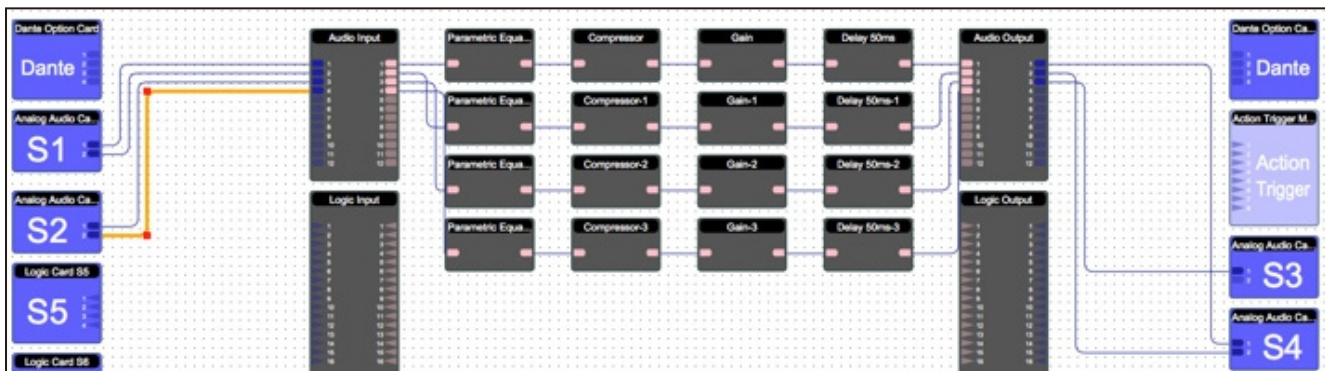
When drawing wires, they may overlap and be difficult to read.
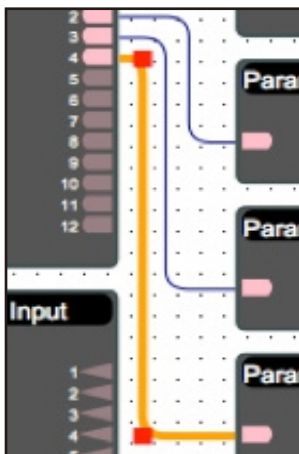
To move wires, click & drag the corner of a wire, or highlight the wire and click & drag the red corner node.

12. To save your project, click **File > Save As.** Save the file to a memorable location.
If a project file is already created, click **File > Save.** You can also save using the save icon at the top right of the work area.
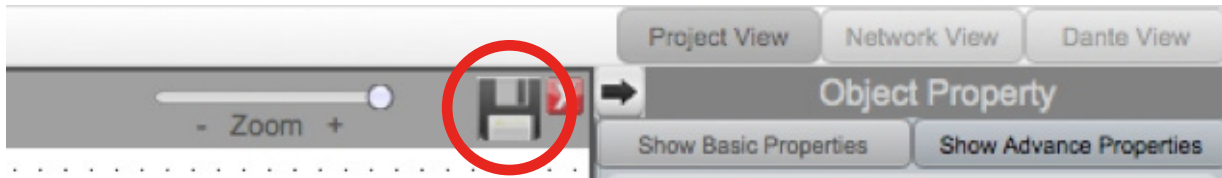
It is recommended to back up project files to an external location.

Saved project files will have a **.pjxml** extension at the end of the file name.

Going Online

Going online loads the design file to the connected device(s) and allows you to make adjustments in real-time.

In order to go online, all devices must be connected and online.
(Green ON indicator in Network View)

To go online, you must associate the device module with the physical hardware device.

1. In Project View, select the device module you would like to map.
2. Right click the device module and select **Map to Physical Device.**

3. Detected devices with their Mac Address will list.
    If there is more than one of the same devices in the network, the devices can be identified by the Mac Address. The device Mac Address can be found in Network View.

It is very important that the name of the device block in the design file matches exactly to the unit in the Network View, otherwise you will not be able to load the design to the physical device.
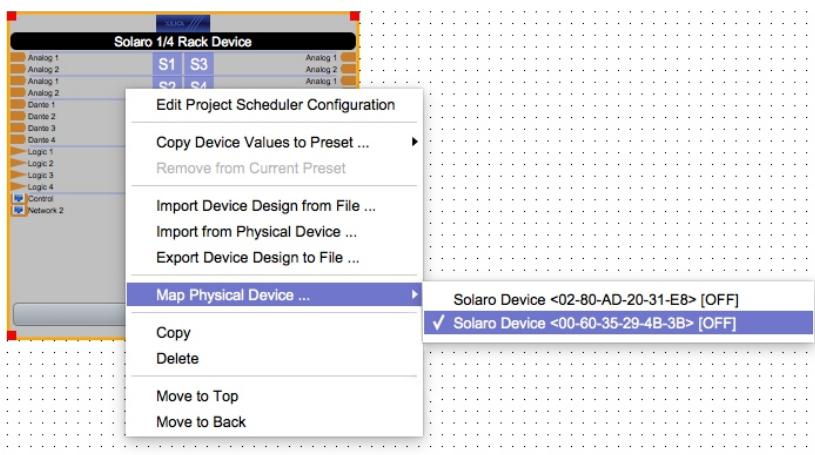
Once mapped, the module will become a solid grey color and the device Mac Address will display at the bottom of the device module.
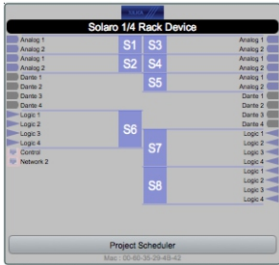
4. Click **Load Design to Device(s)** located at the top of the work area.
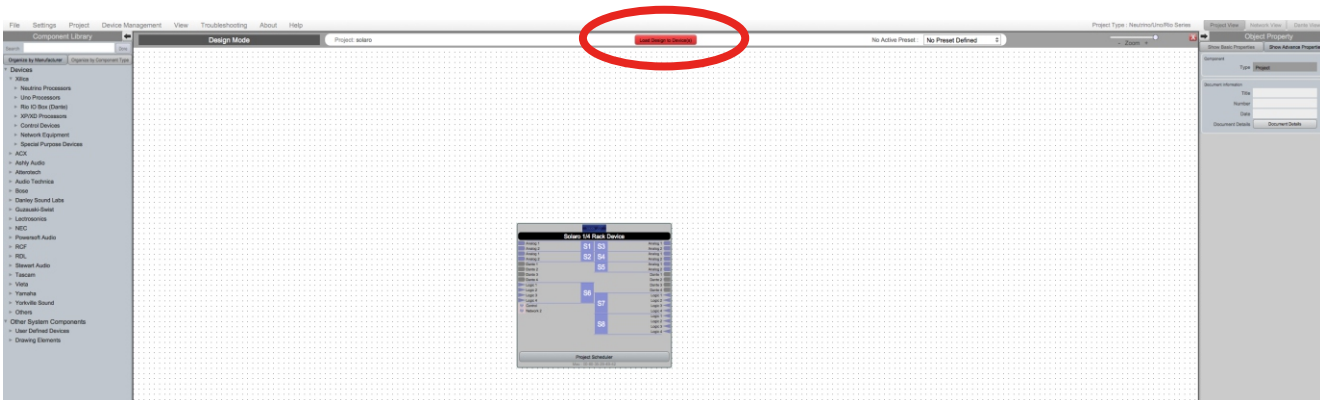
5. A window will pop up. Check the devices that you would like to load your design to. Then click **OK.**
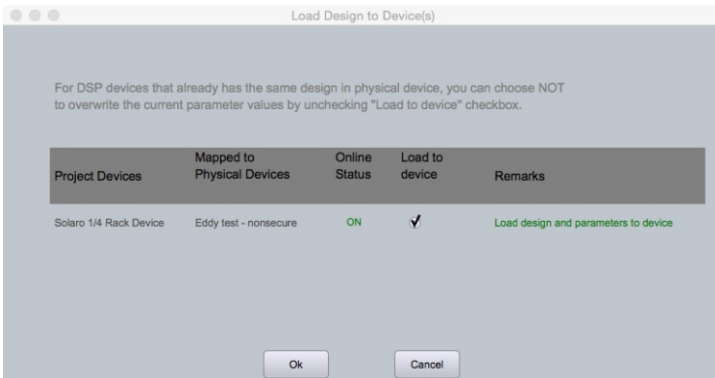
Going online may take up to several minutes. Please do not disrupt the process.
The progress bar at the top will display the overall progress percentage.
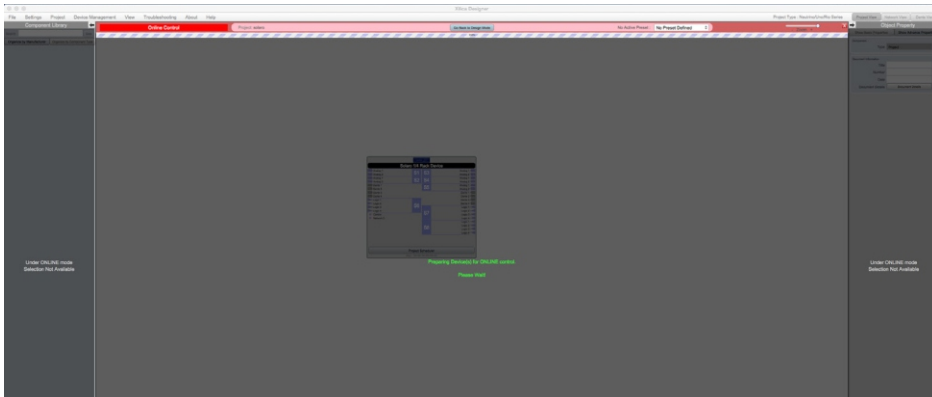
Once online, notice that the work area has become a solid color and the design menus are no longer available.
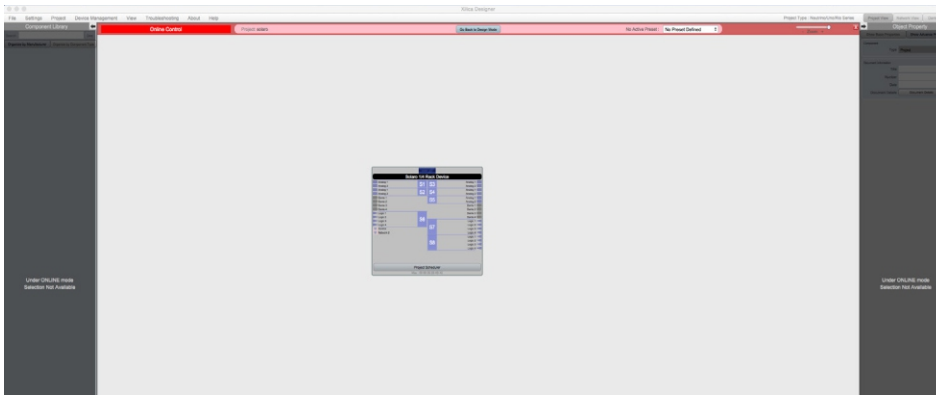
6. To make adjustments in real-time, double click the DSP module in Project View,
   Or double click the device block in Network View to view the device schematic.
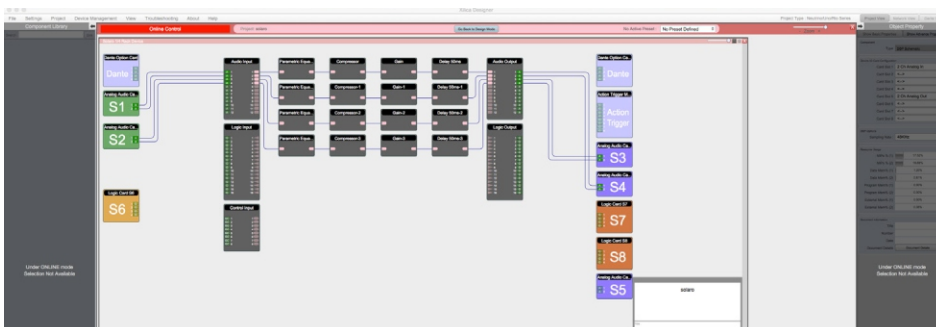
7. Double click any DSP module or I/O block to make adjustments.
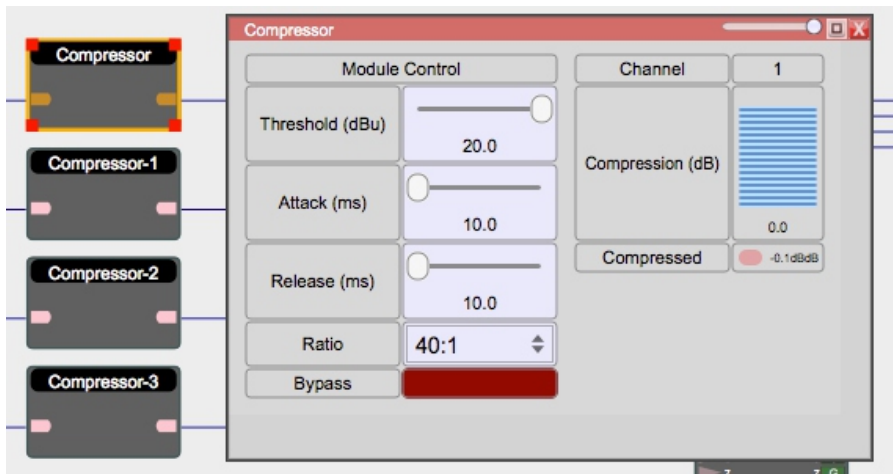
Switch back to design mode at any time using the **Go Back to Design Mode** button located at the top of the work area.
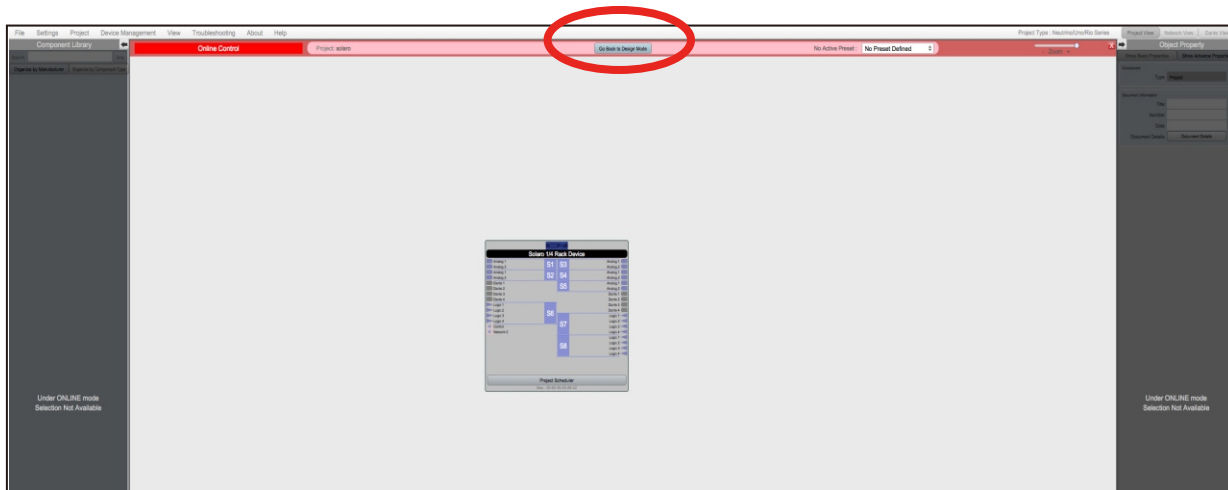
You will be asked if you'd like to copy the adjustments made online, back into the project design.

Click **Yes** to transfer the settings made online into the project.
Click **No** to revert back to the previous design file.

If online settings are transferred into the project, **File > Save** will overwrite the original project file. **File > Save As** will create and save a separate project file.

It is recommended to back up project file(s) to an external location.

XILICA

Customer Support

If you'd like to contact us regarding product support or technical designs, email **support@xilica.com** and we'll connect you with a solutions engineer Alternatively,if you'd like to speak to someone,you can call the following numbers for immediate assistance:

China :   +852 2604-9382

www.xilica.com

Version 5.0

XILICA
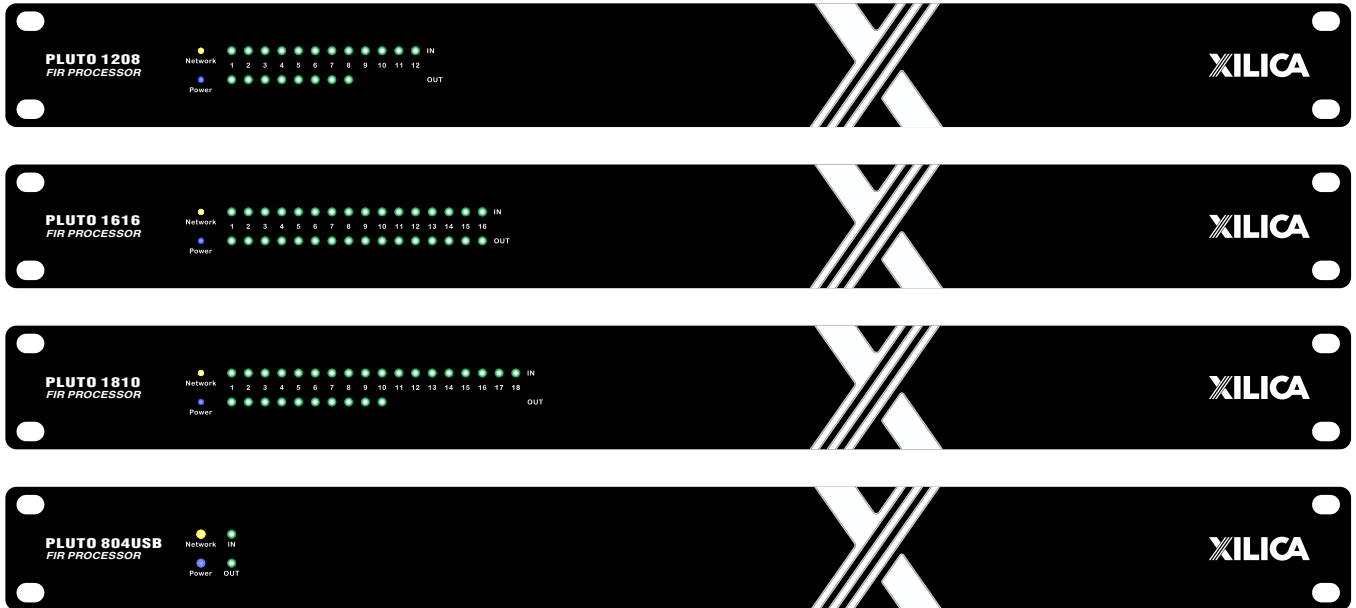
PLUTO 系列
用户手册

重要的安全信息

1. 阅读这些说明在操作产品之前，应阅读所有安全和操作说明。

2. 保留这些说明应保留安全和操作说明以供将来参考。

3. 注意所有警告应遵守产品和操作说明中的所有警告。

4. 遵守所有说明:
   应遵守所有操作和使用说明。

5. 请勿在水中使用本设备。
   请勿在靠近水的地方使用本产品。例如，在浴缸、洗手盆、厨房水槽或洗衣盆附近、
   潮湿的地下室或游泳池附近等。

6. 只能用干布清洁。清洁前，请从墙壁插座上拔下设备插头。

7. 不要堵塞任何通风口 机柜背面或底部的槽和开口用于通风，以确保限位器可靠运行并防止其过热。
   不得堵塞或覆盖 这些开口。切勿通过将产品放在床、沙发、地毯或类似表面上来堵塞开口。切勿
   将本产品放置在散热器或热源附近或上方。除非提供适当的通风或遵守制造商的说明，否则本产品
   不应放置在书柜或架子等内置装置中。

8. 请勿安装在任何热源附近本产品应远离热源，例如散热器、火炉或其他产生热量的产品（包括放大器）。

9. 不要违背极化或接地型插头的安全目的极化插头有两个刀片，一个比另一个宽。
   接地型插头有两个插片和第三个接地插脚。为您的安全提供了宽刀片或第三个插脚。
   如果提供的插头不适合您的插座，请咨询电工更换过时的插座。

10. 保护电源线不被踩到或夹住，特别是在插头、便利插座以及它们从设备中退出的位置。

11. 仅使用制造商指定的附件/附件。

12. 只能与制造商指定的推车、支架、三脚架、支架或桌子一起使用，或与设备一起出售。
    使用手推车时，在移动手推车/设备时要小心使用，以免翻倒造成伤害。
    请勿将本机放置在不稳定的推车、支架、三脚架、支架或桌子上。本机可能会跌落，
    从而对人员造成严重伤害，并对设备造成严重损坏。应小心移动单元和推车组合。
    快速停止、过度用力和不平整的表面可能会导致产品和推车组合翻倒。

13. 在雷雨天气或长时间不使用时，请拔下本设备。为了在雷雨期间或长时间无人看管和不使用时为本机
    提供额外保护，请将其从墙上插座拔下并断开天线或电缆系统。这将防止设备因闪电和电涌而损坏。

14. 将所有服务转交给合格人员。当设备以任何方式损坏时，需要进行维修。例如，当电源线或插头损坏、
    液体溅出或物体落入设备中、设备被雨淋或受潮、无法正常运行或掉落时。

15. 警告：为降低火灾或电击的风险，请勿将本设备暴露在雨中或潮湿的环境中。

16. 设备不得受到滴水或溅水的影响，不得将装有液体的物体（例如花瓶）放置在设备上。

17. 具有 CLASS Ⅰ 结构的设备应连接到具有保护接地连接的电源插座。

18. 当电源插头或器具耦合器用作断开装置时，断开装置应保持易于操作。

Portable Cart Warning

警告	等边三角形内带有箭头符号的闪电旨在提醒用户，产品外壳内，存在未绝缘的"危险电压"其强度可能足以对人员构成危险。
有触电危险请勿打开	
注意：为降低触电风险，请勿取下机盖（后盖）	等边三角形内的感叹号旨在提醒用户注意设备随附资料中的重要操作和维护（维修）说明。
内部没有用户可维修的部件，请由合格的维修人员进行维修	

前面板
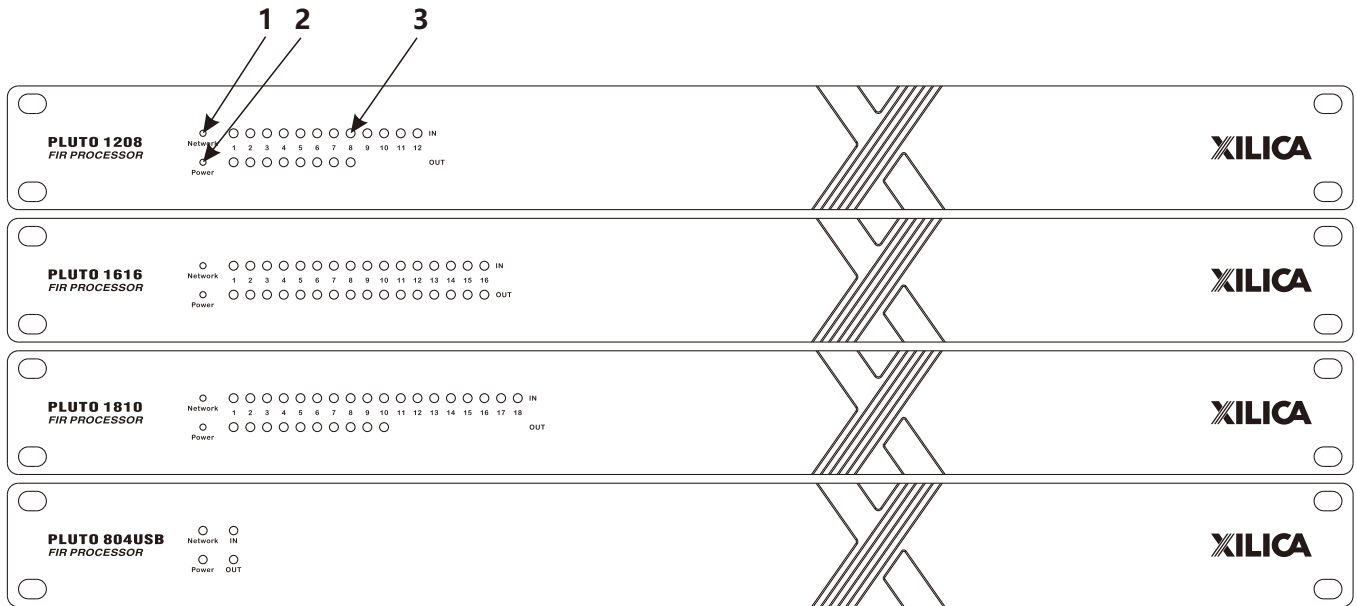
1．网络显示：　　　当机器连接网络后会亮黄灯显示

2．电源显示：　　　机器通电后显示

3．信号显示：　　　机器有音频信号后显示

后面板
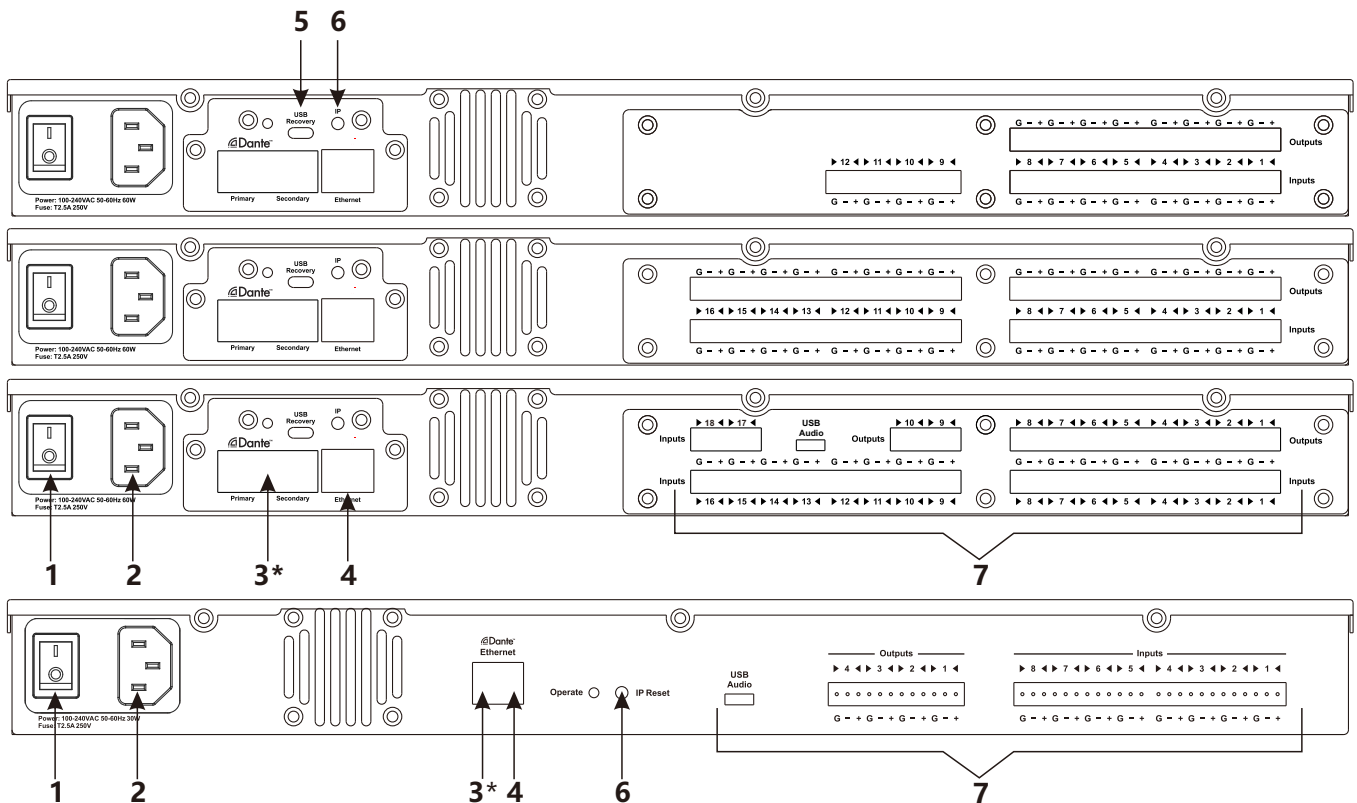
后面板

1. 电源开关: 使用此开关打开 / 关闭处理器.

2. 电源: 将插头插入插座，连接到 100-240 VAC 50-60Hz 电源.

3*. Dante™ 模块: 用户可选装XC-CTODN卡(64x64路Dante卡).
PLUTO 804USB默认是4通道Dante.

4. 以太网: 使用标准 RJ45（以太网）电缆将设备连接到网络.

5. USB 恢复: USB .
Xilica Designer帮助文件或 Xilica 常见问题以获取更多帮助.

6. IP重置: 用于重置 IP 地址的按钮。

7. 输入 / 输出: 音频输入输出接口

技术规格

- **通道数:**   16进 / 16出，18进 / 10出, 12进 / 8出， 8进 / 4出

- **DSP处理器:**   64位SC587 ADI双核高性能数字处理芯片

- **ADC / DAC转换器:**   高性能 32-bit

- **最大电平:**   +20dBu

- **频率响应:**   +/- 0.1dB (20 to 20kHz)

- **动态范围:**   110dB typ (unweighted)

- **采样率:**   48/96kHZ

- **传输延迟:**   4ms/2ms(48/96kHZ)

- **共模抑制比:**   100dB (50 to 10kHz)

- **串扰:**   <-100dB @ 1kHz

- **总谐波失真:**   0.002% (1kHz@ +4dBu)

- **接口:**   凤凰3.5mm, RJ45以太网，IEC电源插座
Type C USB声卡 (仅限PLUTO 1810,PLUTO 804USB)

- **接口模式:**   平衡模式

- **电源:**   100-240Vac 50-60Hz

- **尺寸:**   19"x1.75"x12"(483x44.4x305.5mm)
PLUTO 804USB: 19"x1.75"x9.33"(483x44.4x237mm)

- **重量:**   PLUTO 1616: 8.87磅 / 4.03公斤   PLUTO 1810: 8.56磅 / 3.89公斤
PLUTO 1208:8.4磅 / 3.82公斤   PLUTO 804USB: 6.6磅 / 3公斤

设备连接

Xilica音频处理器是通过以太网方式连接网络。配合Xilica Designer软件进行设置。

盒子里装了什么

- 处理器
- 电源线

你需要提供什么

- 计算机

- 网络接口（路由器、PoE交换机）
  路由器用于 IP 分配以及与计算机和控制设备的轻松连接。
  如果不使用本地电源，控制器将使用 PoE 交换机。

- 以太网电缆
  所有有线连接都使用标准 RJ45 Cat 5/6（以太网）连接。

连接设备

可以使用以下方法在计算机和处理器之间建立网络连接：

A) 启用 DHCP 的路由器或服务器/路由器组合（推荐）通过启用 DHCP 的路由器和服务器，处理器将在通电和连接时自动获取 IP 地址。当还要使用其他 Xilica 墙控时，建议使用路由器和 PoE 交换机。该组合为墙壁控制提供 DHCP 和电源。建议使用 Linksys 路由器和 Netgear交换机。

B) 非 DHCP 直接连接或通过以太网交换机的间接连接当处理器直接连接到计算机或通过交换机/集线器间接连接并且 DHCP 不可用时，连接过程不是自动的。

A)使用启用DHCP的路由器/服务器进行连接

注意：应首先打开启用DHCP的路由器/交换机设备，并在打开硬件电源之前将所有以太网电缆连接到硬件。这将允许向硬件分配适当的IP地址。
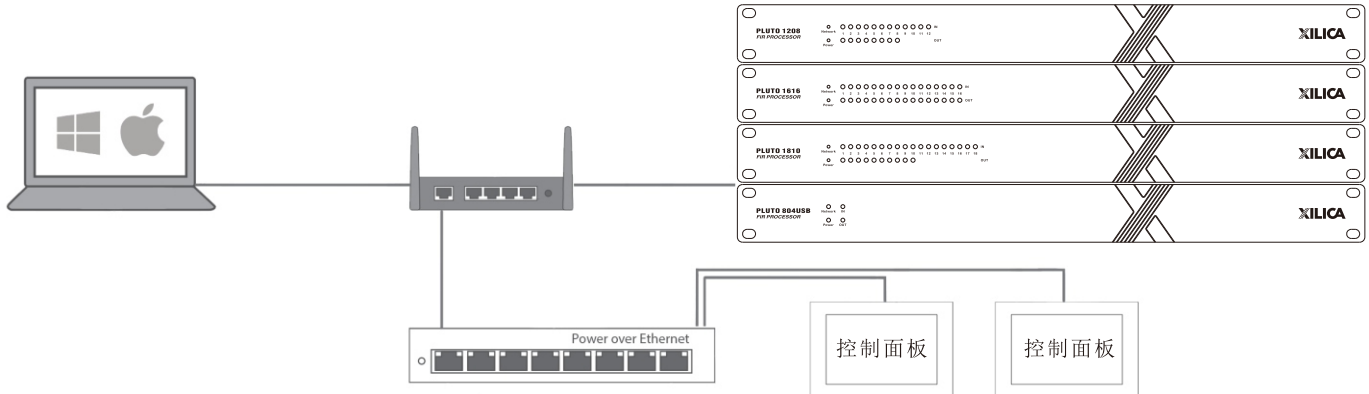
首先，打开路由器/交换机设备的电源。
然后将以太网电缆从主机连接到启用DHCP的路由器。

将以太网电缆从路由器连接到设备。然后将外部电源连接到设备。

打开处理器设备。

B)非DHCP直接连接或间接连接

非DHCP连接不是自动的。必须手动配置非DHCP连接。

请参阅Xilica Designer帮助文件或Xilica常见问题 以获取更多帮助
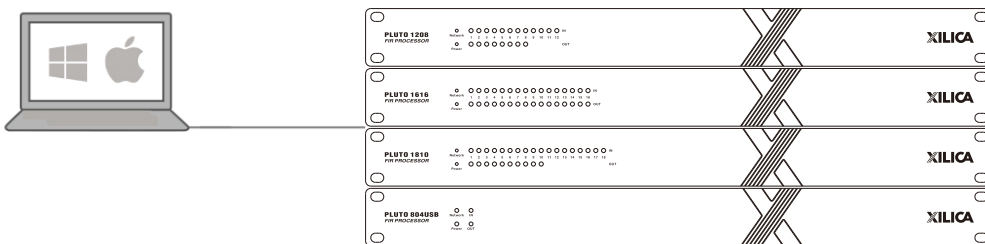
前面板配置

面板LED
有信号时亮绿灯，当信号出现过载时亮红灯。

安装Xilica Designer

Xilica Designer 软件提供Xilica系列处理器的最佳配置，还配置Xilica的可编程遥控器，配置和管理任何联网的Dante设备，并提供通用的第三方设备控制集成。

Mac OS X安装

系统要求
Mac OS X 10.8或更高版本
处理器1GHz或更高
500MB可用空间
1GB显卡
4GB内存

1. 从Xilica网站（www.xilica.com）下载最新版本的Xilica Designer。

2. 打开下载的 .zip 文件。

3. 然后打开XilicaDesigner.mpkg文件。

4. 将出现一个安装窗口。阅读并按照每个步骤继续。

5. 完成后，安装窗口会显示：安装成功。
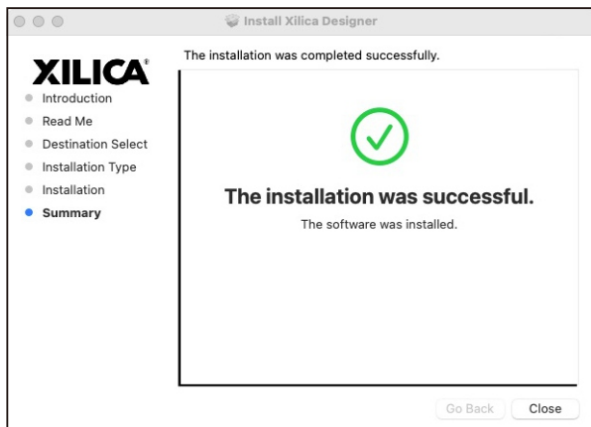
6. Xilica Designer 软件现已安装。

视窗安装

系统要求

Windows 7 或更高版本

处理器 1GHz 或更高

500MB 可用空间

1GB显卡

4GB 内存

1. 从Xilica网站（www.xilica.com）下载最新版本的Xilica Designer。

2. 打开下载的.zip文件。

3. 然后打开XilicaDesigner.exe文件。

4. 将出现一个安装窗口。单击安装以继续。
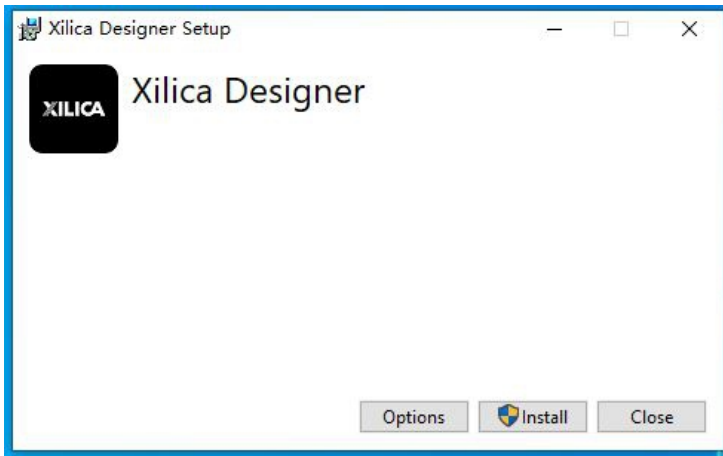
5. 让程序完成安装过程。这可能需要几分钟。

6. 完成后，Windows 将要求允许防火墙访问。建议的
设置是允许Xilica Designer在私有网络中进行通信，例如家庭或工作。自行决定是
否允许访问公共网络。选中相应的框，然后单击允许访问以完成。
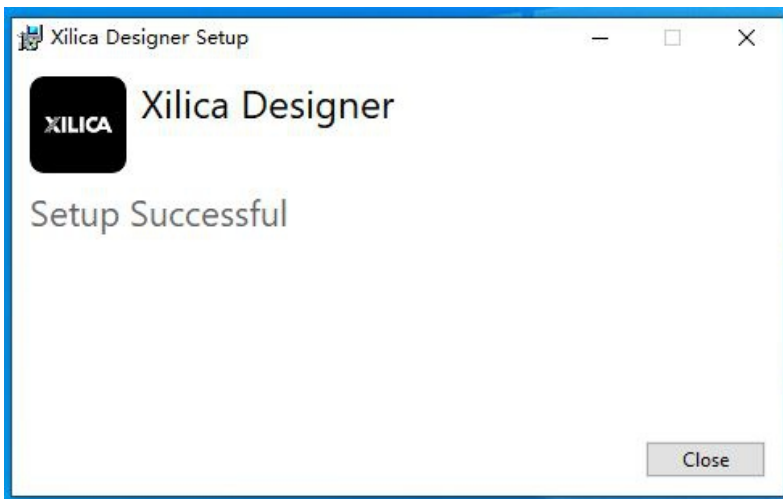
7. Xilica Designer软件现已安装

启动 Xilica Designer

在您的桌面或应用程序文件夹中找到 Xilica Designer 应用程序。双击应用程序以启动软件。
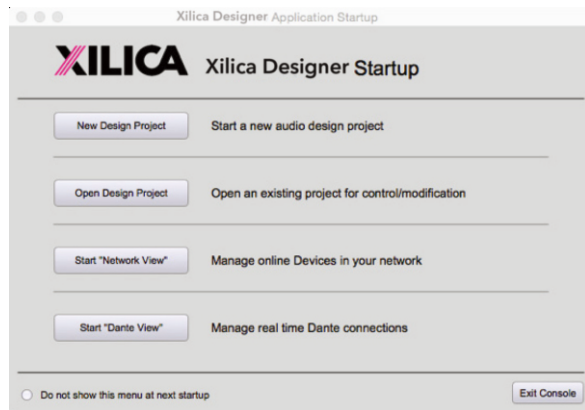
您可以创建新设计项目、打开设计项目、启动网络视图或启动 Dante 视图。

网络视图

网络视图显示网络上的所有处理器和控制设备。网络视图显示设备信息，包括设备连接状态、计算机 IP 地址、设备 IP 地址、设备名称、制造商和固件版本。

在网络视图中，您应该会看到列出的处理器。每个设备块的左上方是一个设备连接指示器。

绿色：设备已连接并可运行。

黄色：设备已连接并在线，但无法运行。将鼠标悬停在网络指示器上将显示已识别问题的弹出消息。　（通常这表明没有加载任何设备设计）

红色的：设备未连接且离线。Xilica Designer 软件和设备之间没有通信。请检查所有电缆、连接和电源。如果处理器正在执行固件升级或正在重新启动，这可能是暂时的离线中断。

有时您可能只会看到一个感叹号 (!)。这表明固件升级可用。通常这不是问题，
除非项目文件中有过时固件不支持的更新模块。

固件升级

请注意，使用具有较新固件的较旧版本的软件或具有较旧固件的较新软件将起作用，
但某些功能可能不可用并且可能存在错误。

我们建议将软件和固件升级到最新版本。

在开始之前，请检查您的软件和固件版本。

要检查当前设备固件版本，请确保您的设备已连接并在线。
在网络视图中，具有可用固件升级的设备将显示带有感叹号的黄色三角形。
设备固件版本也列在设备块中。

要查看当前软件版本，请单击软件顶部的关于选项卡。

匹配固件

为帮助您确定适合您设备的固件文件，请参阅下表。注意：文件结构可能与创建此列表的
日期不同。请随时查看 Xilica网站（www.xilica.com）以保持更新。

#_#_# 代表固件更新的 3 位版本代码。

(SOLARO_#_#_#.img)	Solaro QR,FR
(X2_#_#_#.img)	X2
(XIO_#_#_#.img)	XIO8、XIO16
(XTOUCH_#_#_#.img)	XTouch50、XTouch80
(NEUTRINO_#_#_#.img)	Neutrino A,A-D(AES),A-N(Dante),A-ND(Dante,AES)
(UNO_#_#_#.img)	Uno-U,U-D(AES),U-N(Dante),U-ND(Dante,AES)
(NEUTRINO-AEC_#_#_#.img)	Neutrino AEC
(UNO-AEC_#_#_#.img)	Uno AEC
(RIO_#_#_#.img)	Rio-N,NX
(NEUPANEL MINI_#_#_#.img)	Neupanel Mini K1、K4、S4、S8、S4K1

固件升级程序：

将设备中的任何设计文件保存到您的计算机上，因为设备上的所有编程数据都将在升级过程中被擦除。固件升级完成后，可以将设计文件重新加载到您的设备中。

1. 设备必须在线且可操作（绿色 ON 指示灯）才能执行固件升级。

2. 从 Xilica 网站（www.xilica.com）为您的设备下载最新的固件版本。

3. 在网络视图中，右键单击设备块并选择固件升级。
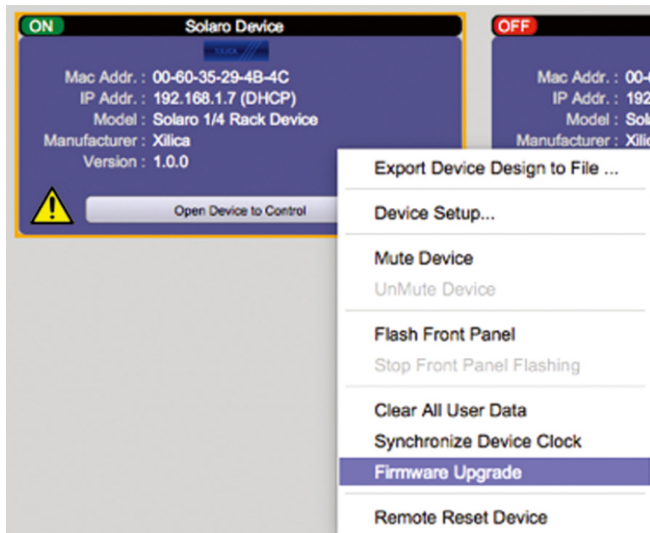
4. 将出现一个弹出警告，指出固件升级过程将清除您设备中的所有数据。单击"确定"继续。
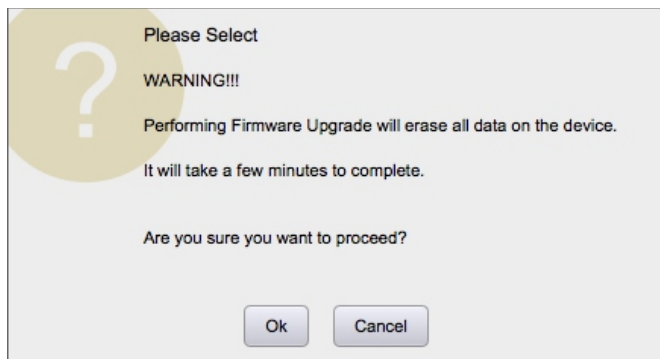
5. 导航到您下载新固件文件的文件,单击打开。

6. 设备窗口中的状态栏将监控固件升级进度。

固件文件加载到设备后，设备将自动重启并更新其内部数据。这可能会需要几分钟。
在此期间，设备网络指示灯将变为红色并显示为离线。

请勿关闭设备。在固件升级期间关闭设备可能会导致处理器完全损坏。如果发生这种情况，
则必须完成USB 固件恢复。
（请参阅 Xilica Designer 帮助文件或 Xilica FAQ 以获得进一步帮助）。
固件升级完成后，设备将显示绿色 ON 指示灯。

项目视图

您可以通过以下两种方式之一创建新项目：

自动配置

如果您的设备在网络视图中列出，请选择您的设备，然后单击软件右上角的Create New Project with Selected Device(s)。如果设备已连接且可操作（绿色 ON 指示灯），PLUTO 设备将根据硬件卡配置自动进行配置
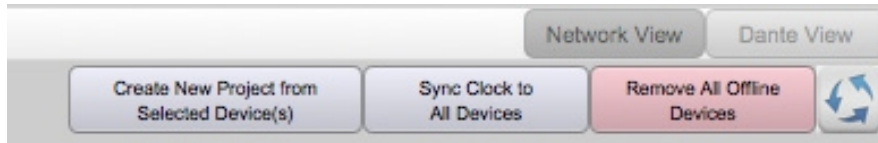
空白项目

或者，单击文件 > 新建项目。
创建空白项目时，Xilica Designer会询问您使用的是哪个 DSP 系列。选择适当的选项。
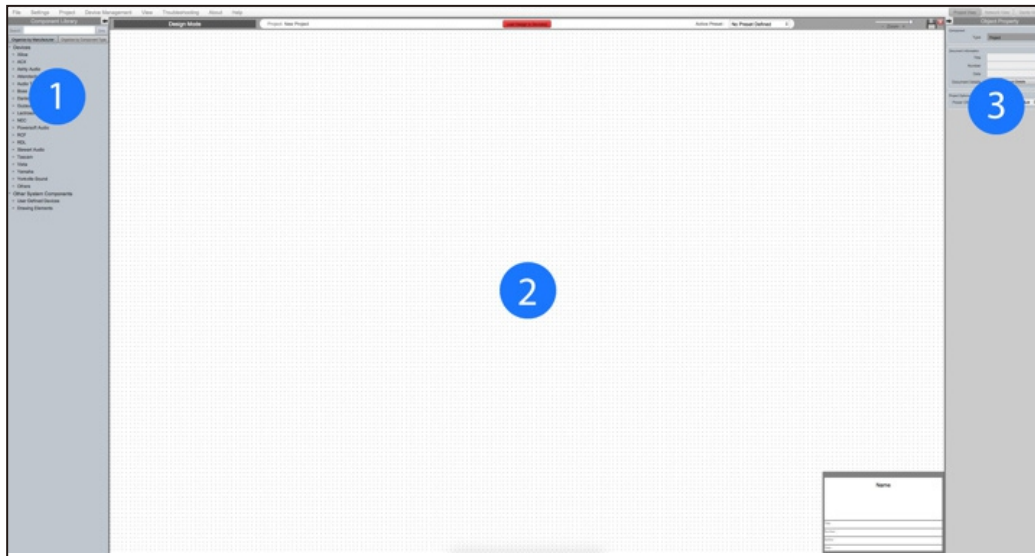
1. 元件库菜单

此菜单显示您可以在项目中使用的设备和设计模块的列表。

2.工作区

工作区提供了设计和配置设备的空间。

3.对象属性菜单

此菜单允许您自定义设计中的对象属性。

创建设计

例如，将使用单个 DSP 硬件模块，但可以使用多个 DSP 硬件项目完成设计。

可以离线设计项目（未连接设备），并且可以稍后将设计加载到您的设备上。

1. 从组件库中，将 DSP 模块拖放到工作区。
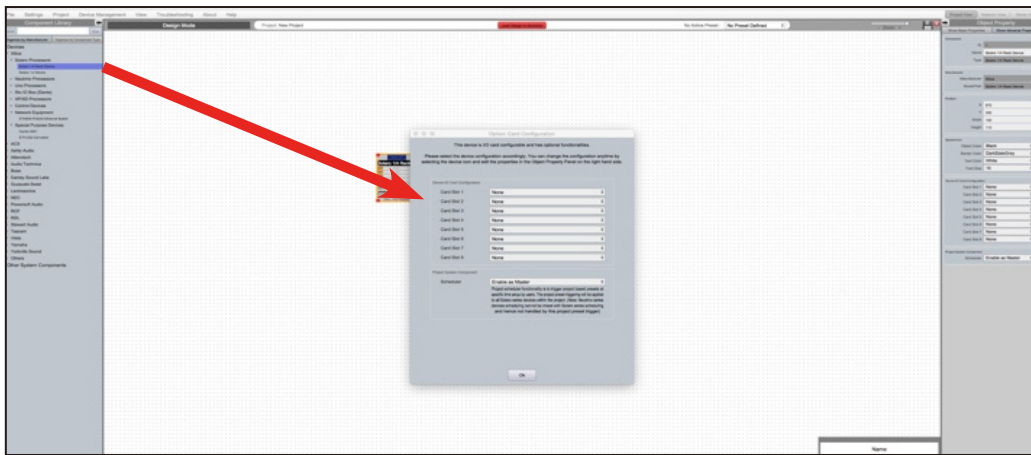
2. 将出现一个选项卡配置框。使用下拉菜单自定义您的PLUTO DSP设备，完成后单击确定。

注意：设备卡配置必须与硬件卡配置匹配。不匹配的卡将没有任何功能。可以使用对象
　　　 属性菜单重新配置 I/O卡。

3. PLUTO设备将进行相应配置。
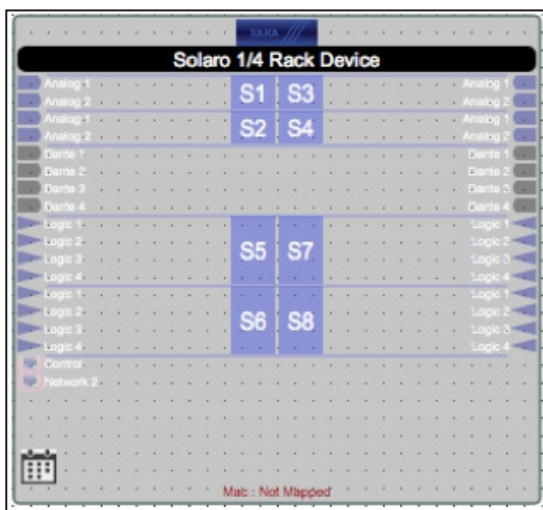
4. 选择 DSP 模块以突出显示它。在对象属性菜单中，可以自定义设备属性。
   注意：对象属性因所选对象而异。
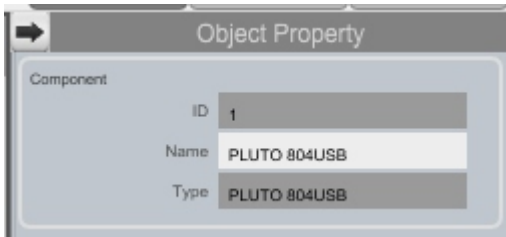
5. 双击DSP模块打开设计原理图。通过拖动窗口的角来调整窗口大小。
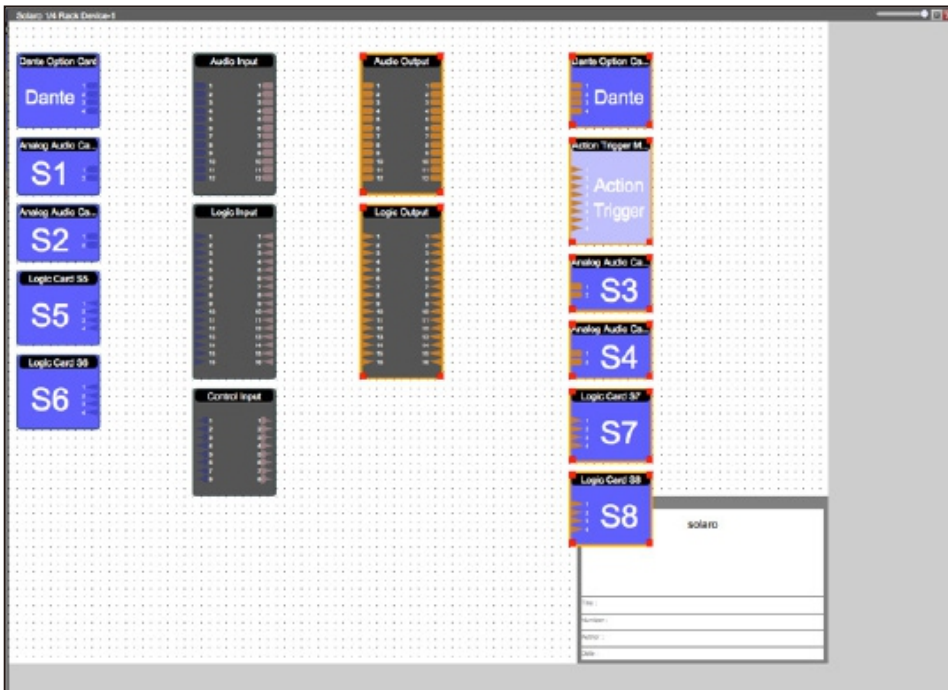
6. 要分隔您的工作区域，单击并拖动输出模块周围的选择框，
   然后使用光标箭头或鼠标将模块向右移动。
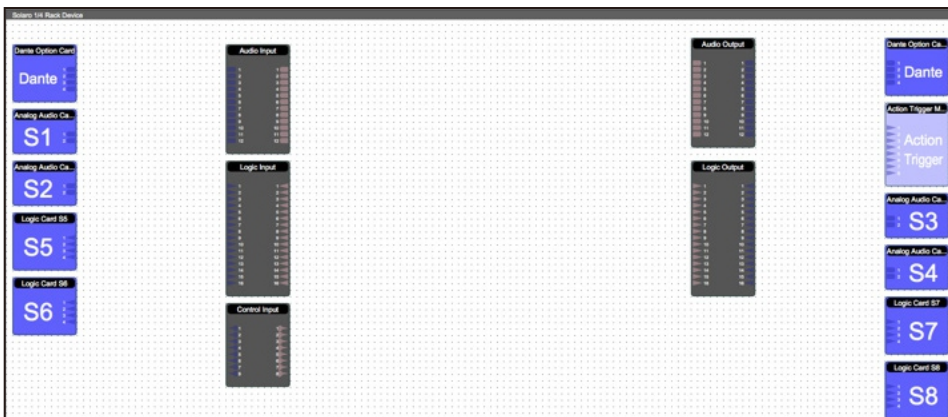
选择此窗口时，Component Library 菜单会显示各种DSP模块。

7. 单击一个 DSP 模块并将其拖动到器件原理图窗口中

在示例中，添加了 PEQ。

8. 在对象属性菜单中，您可以自定义模块。
   对于 PEQ 模块，最多可使用 8 个频段。

9. 双击DSP模块将其打开
   在 PEQ 模块中，在对象属性菜单中确定的频段数反映在 DSP 模块中。
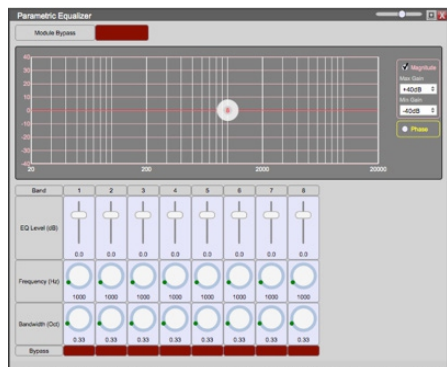
10. 从输入模块中，单击并拖动一条线到 DSP 输入节点。
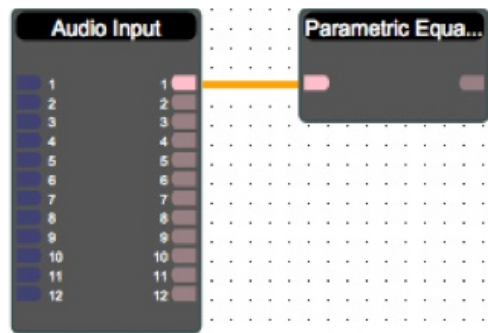
11. 拖放更多的 DSP 模块，然后相应地连接它们。
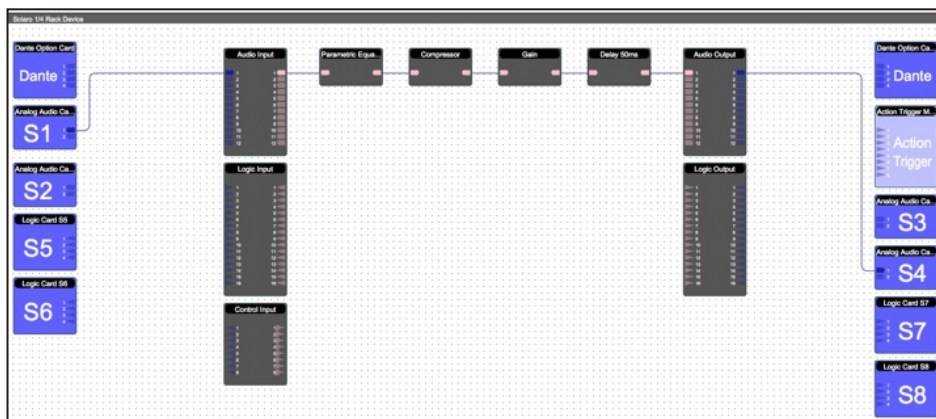
通过选择所需的对象, Ctrl + C 复制、然后 Ctrl + V 粘贴项目，可以轻松复制处理链和对象。
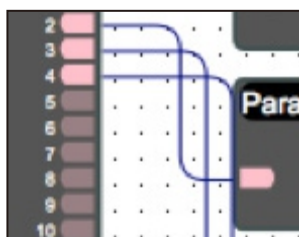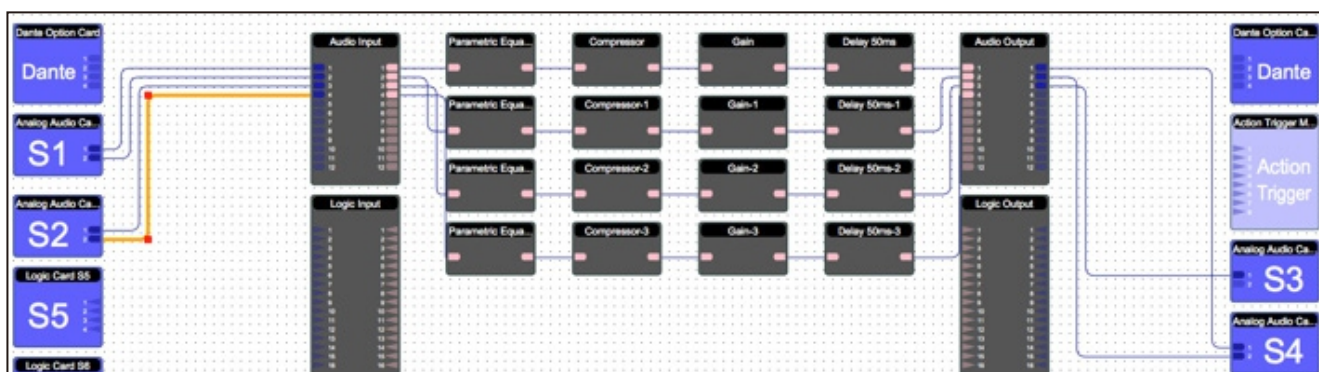
拉线时，它们可能会重叠并且难以阅读。
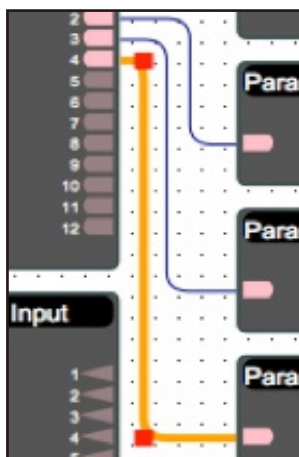
要移动电线，请单击并拖动电线的角，
或突出显示电线并单击并拖动红色角节点。

12. 要保存您的项目，请单击文件 > 另存为。将文件保存到一个容易记住的位置。如果已创建项目文件，请单击文件 > 保存。您还可以使用工作区右上角的保存图标进行保存。

建议将项目文件备份到外部位置。

保存的项目文件将在文件名末尾具有.pjxml扩展名。

映射(上传)

映射(上传)将设计文件加载到连接的设备，并允许您实时进行调整。

为了映射(上传)所有设备都必须连接并在线。（网络视图中的绿色 ON 指示灯）

要映射(上传)，您必须将设备模块与物理硬件设备关联。

1. 在项目视图中，选择您要映射的设备模块
2. 右键单击设备模块并选择映射到物理设备。
3. 将列出检测到的设备及其 Mac 地址。
   如果网络中有多个相同的设备，则可以通过 Mac 地址来识别这些设备。
   设备Mac 地址可以在网络视图中找到。

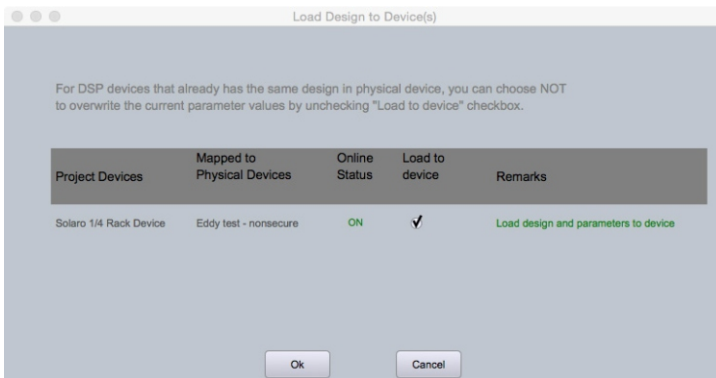设计文件中设备模块的名称与网络视图中的单元完全匹配非常重要，
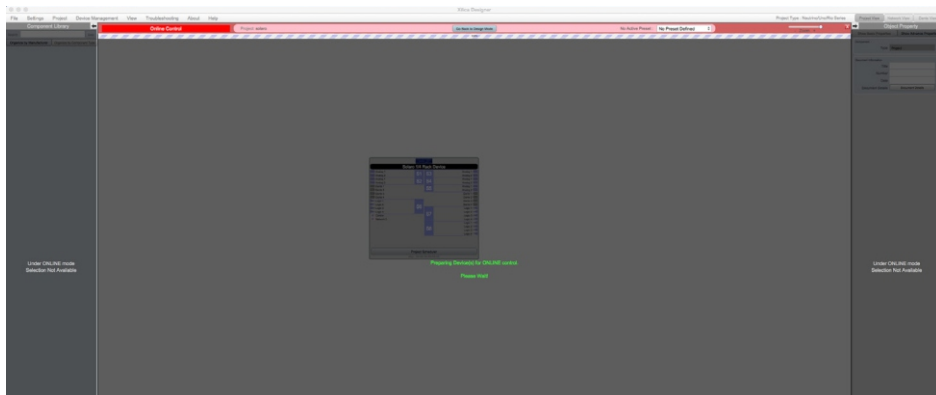否则您将无法将设计加载到物理设备。
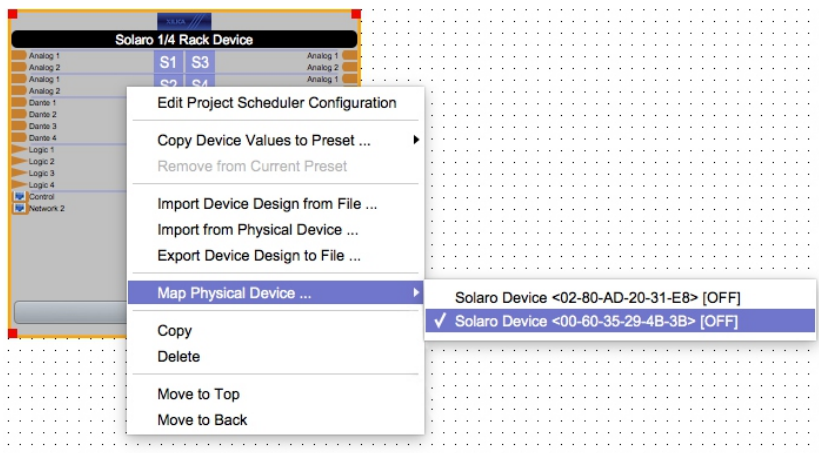
映射后，模块将变为纯灰色，设备 Mac 地址将显示在设备模块的底部。
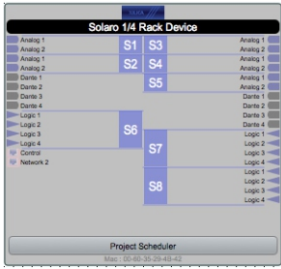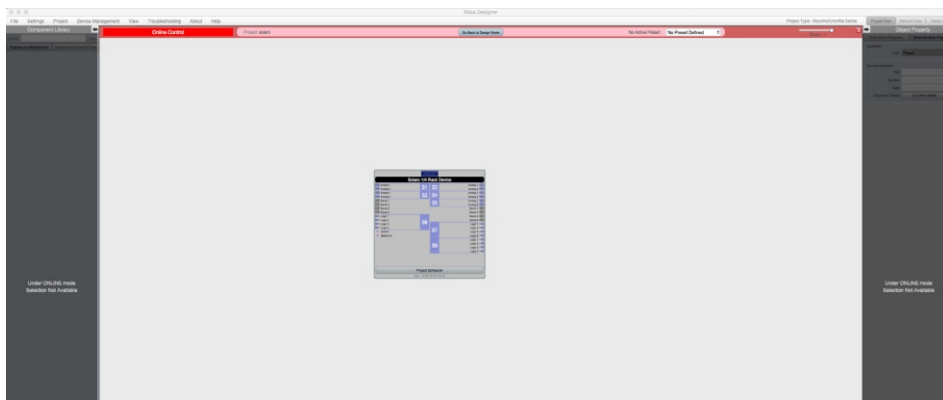

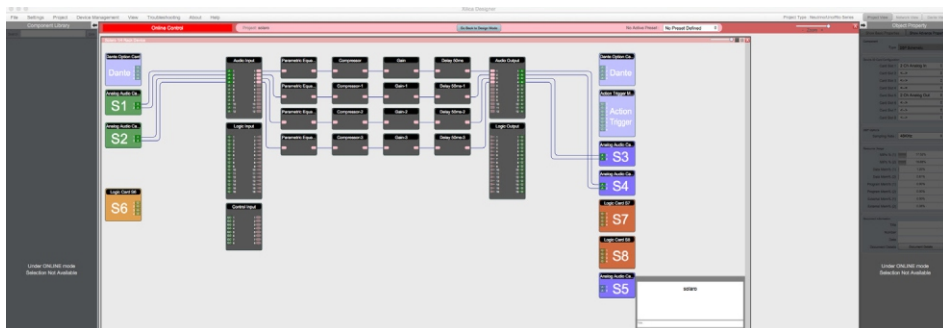4. 单击位于工作区顶部的将设计加载到设备。
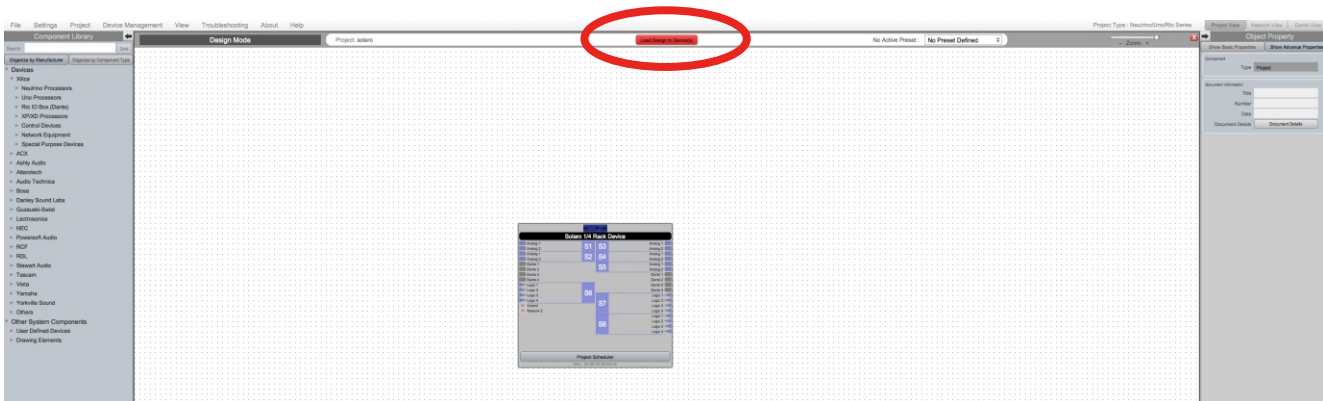
5. 会弹出一个窗口。检查您要将设计加载到的设备。然后单击确定。

映射(上传）可能需要几分钟时间。请不要中断该过程。顶部的进度条将显示整体进度百分比。
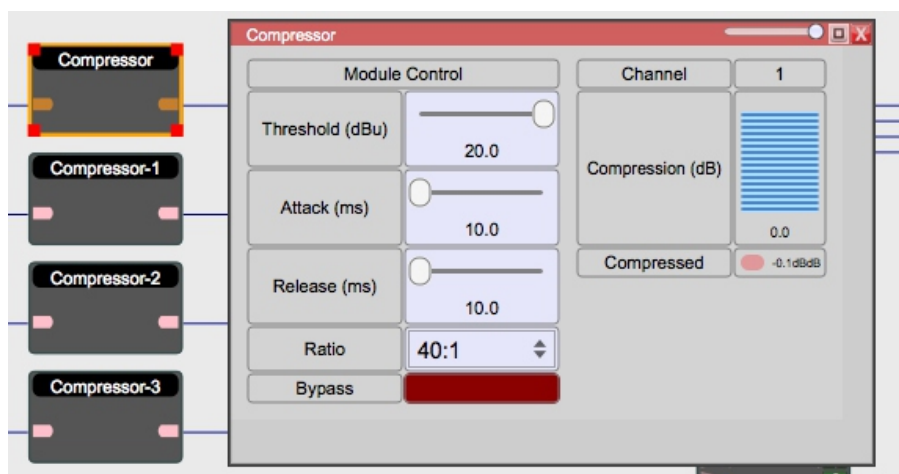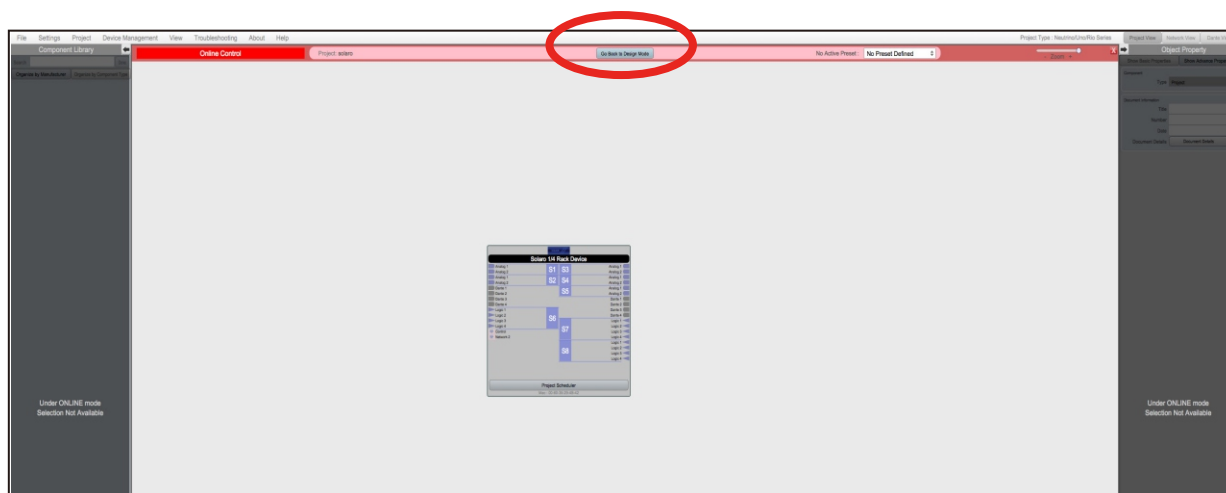

映射(上传）后，请注意工作区已变为纯色，并且设计菜单不再可用。

6. 要实时调整，双击项目视图中的 DSP 模块，或者双击网络视图中的设备块查看设备原理图。

7. 双击任意 DSP 模块或 I/O 模块进行调整。

用位于工作区顶部的返回设计模式按钮随时切换回设计模式。

系统将询问您是否要将在线所做的调整复制回项目设计中。

单击"是"将在线进行的设置传输到项目中。
单击"否"以恢复到以前的设计文件

如果将在线设置传输到项目中，文件 > 保存将覆盖原始项目文件。
File > Save As将创建并保存一个单独的项目文件。

建议将项目文件备份到外部位置。

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联系和支持

如果您想联系我们或获得产品技术支持，发邮件到 **support@xilica.com**
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