

## Intellijel 7U Performance Case Gen-2 — 2026.04.13

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Second Generation 7U Performance Case for Eurorack with PSU, Audio & MIDI I/O



# Table of Contents

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Compliance.....	3
Welcome to Performance Case Gen-2.....	4
Case Layout.....	5
Installing Modules.....	6
Locking Cover.....	7
Built-in Stand.....	8
Adjustable 1U Row.....	9
Audio Board Connectivity.....	10
MIDI + USB Connectivity + USB.....	11
VESA Mount.....	12
Case Joiner Plates.....	13
Technical Stuff.....	15
Appendix I: I/O Module Compatibility.....	16
Appendix II: Power Supply Details.....	17

# Compliance Statements

## FCC COMPLIANCE STATEMENT



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.

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

## CANADA

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003.

## LEGAL DISCLAIMER

The information in this document is subject to change without notice and should not be construed as a commitment by Intellijel. Intellijel assumes no responsibility for any errors that may appear in this document. Intellijel may also make improvements and/or changes in the products and programs described in this document at any time without notice. In no event shall Intellijel be liable for any special, indirect, or consequential damages or any damages whatsoever resulting from loss of use, data, or profits, whether in an action of contract, negligence, or other action, arising out of or in connection with the use or performance of this information.

## EUROPEAN UNION REGULATION COMPLIANCE STATEMENT



This device meets the requirements of the following standards and directives:

EMC: 2014/30/EU

EN55032:2015 ; EN55103-2:2009 (EN55024) ; EN61000-3-2 ; EN61000-3-3

Low Voltage: 2014/35/EU

EN 60065:2002+A1:2006+A11:2008+A2:2010+A12:2011

RoHS2: 2011/65/EU

WEEE: 2012/19/EU

# Welcome to Performance Case Gen-2

Intellijel 7U Performance Case Gen-2 is the ultimate base for a portable, performant Eurorack system. This second-generation version builds on the features that made the first generation so popular amongst professionals and hobbyists alike.

Each row of the Performance Case Gen-2 is 104HP wide. There are two rows of 3U rack space, and one row of 1U rack space, which can be repositioned to the top, middle, or bottom of the case.

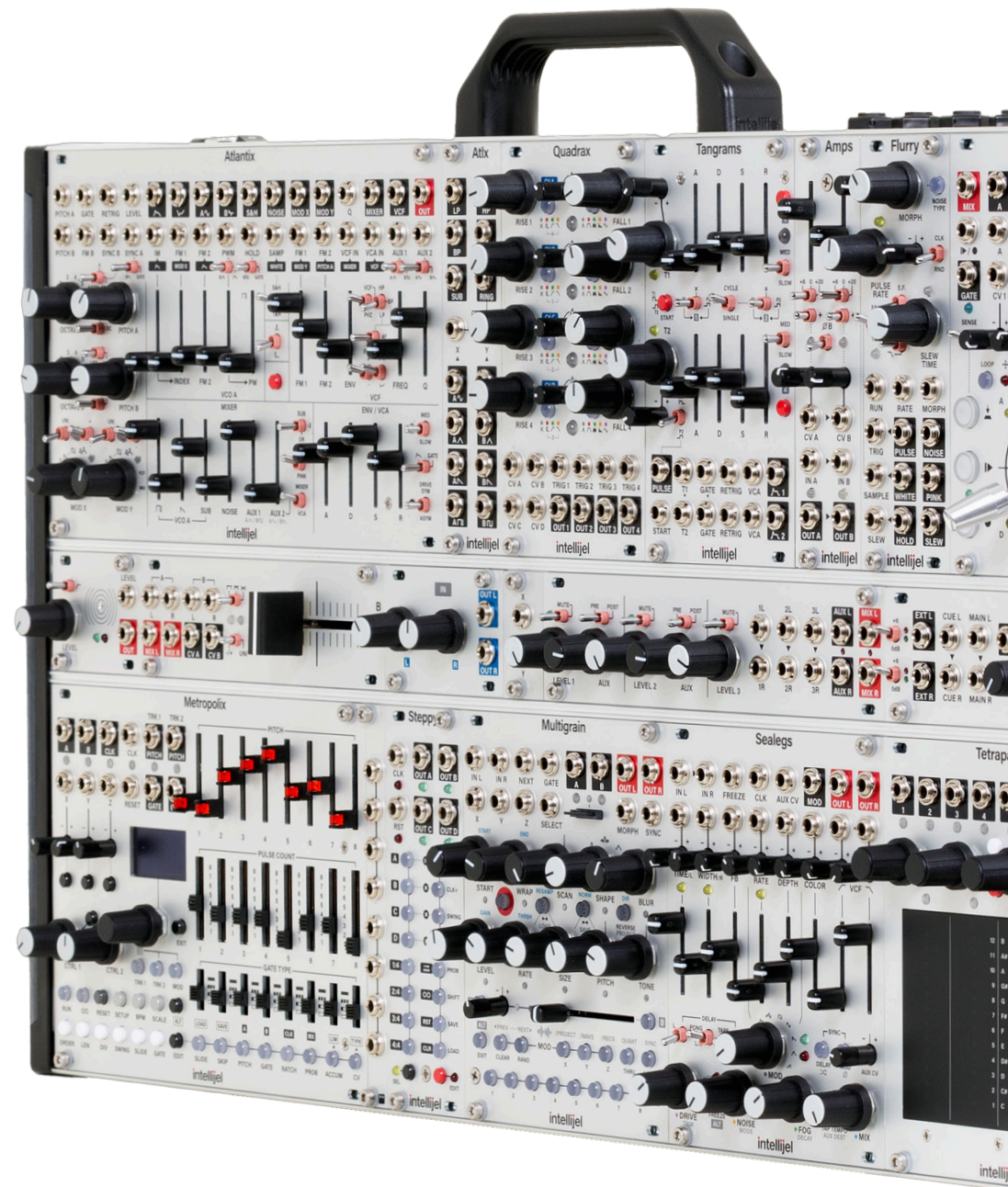
The solid aluminium frame with ergonomic handle protects your modules from bumps and scratches while you're on the move. The included lid covers your modules, leaving plenty of room to keep your system patched and ready to go. A recessed internal locking system makes it easy to securely attach and detach the lid.

The Performance Case gives you multiple options for ergonomic positioning within your workspace. The fold-away legs allow you to quickly angle up your case for easier viewing, patching and panel access on a desktop. Or, you can attach the Performance Case to a stand/arm with a VESA mount - letting you get creative with positioning your system. Or, simply lay it down flat; it's entirely up to you!

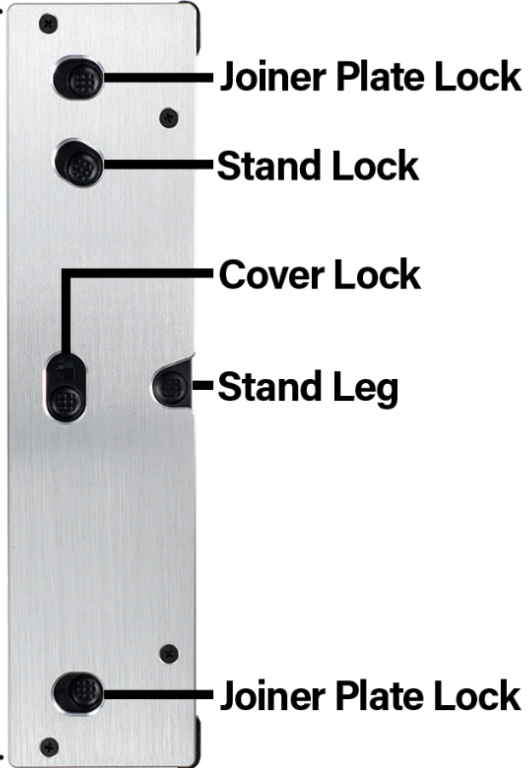
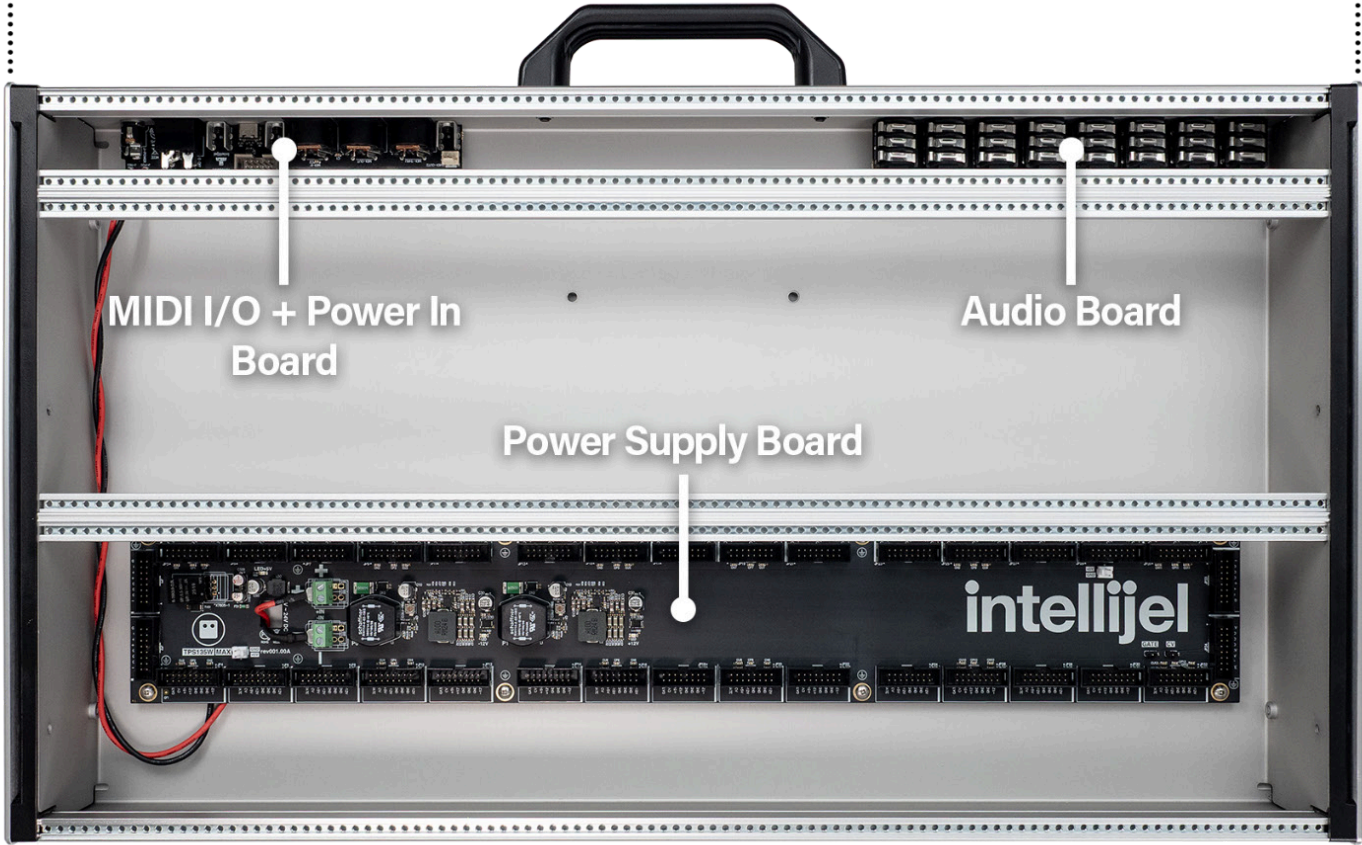
If you have two Performance cases, you can stack them together with the Joiner Plates (sold separately), for a massive 14U system. This is compatible with the original 104HP Performance Cases, too.

Eight TRS ¼" Neutrik jack connections give you plenty of options to connect to mixers, FX and other audio gear. Each jack socket has connection options for balanced mono, unbalanced stereo or send / return configurations. 5-pin MIDI In, Out and Thru also feature on this case - plus MIDI over USB-C.

The second-generation Power Supply Board includes thirty-four shrouded power headers – more than enough to accommodate as many modules as can fit in the case. Improved performance also means less noise across your system.



# Case Layout



# Installing Modules

Before installing Eurorack modules into your new Performance Case, it's important to check through each of the following points –

## Module Width and Depth

**104HP | 2 x 3U Rows | 1 x 1U Row | 43-73mm Depth**

Ensure that all your modules have sufficient room in the case:

- Check that the total HP of modules in each row does not exceed 104HP.
- Lay out modules along the rails without installing to check fit. Each rail allows for a small offset to help align modules with the screw holes.
- Check that the module depth does not exceed the case limits. Also consider that case depth changes when modules are positioned above boards.

Detailed measurements can be found in [Technical Stuff](#).

- Use [ModularGrid](#) to experiment with potential system layouts.

**⚠️ Avoid leaving gaps between modules, as dirt or debris can fall into the case and cause issues. Where possible, fill any empty space with blank panels.**

## Rack Screw Sizing

**M3 | 6mm or 8mm with Washer**

The Performance Case uses standard screw sizing for Eurorack. If you want to use Washers to protect your module panels, consider using 8mm screws instead of 6mm.

## Power Requirements

**34 x 16-pin Headers | +12V = 6.0A max. | -12V = 5.0A max. | +5V = 2A max.**

Ensure that the power requirements of the modules in your system do not exceed those of the **TPS135W** Power Supply:

1. For every module connected to the Power Supply Board, record the current draw at each voltage: +12V, -12V and +5V. This info is commonly found in the module manual, or on [ModularGrid](#).
2. Sum together all current values with matching voltages - giving you three separate current values at +12V, -12V and +5V.
3. Compare these to the PSU current values stated above (also in [Technical Stuff](#)). The summed current value at each voltage should be less than the

PSB values. If they are, your system should work fine. If they are the same or exceed those values, you may need to remove modules until the values are below the max limits.

If you need more info, see [Appendix II: Power Supply Details](#).

**⚠️ Failure to adequately power your modules may result in damage to your modules or the power supply.**

## Connecting Modules to the Power Supply Board

1. Ensure the case is switched off and disconnected from the external PSU.

**⚠️ Failure to do so may result in serious injury or equipment damage.**

2. Connect a ribbon cable to the power header on the module, ensuring correction orientation. The 'coloured stripe' on the ribbon cable should align with the side of the module header marked "-12V", "Red Stripe", or similar (check module manual if unsure).
3. Connect the 16-pin end of the ribbon cable to a header on the PSB. These are shrouded to help with alignment and orientation. Double-check the 'coloured stripe' on the ribbon cable aligns with the pins labelled "-12V".



**⚠️ Misalignment or a backwards ribbon cable can potentially damage the module. Double check alignment and that the headers are fully seated before continuing.**

4. Reconnect the Power Supply and switch the system on. Immediately check that all modules are powered on and operating correctly. If you notice a problem, **power off your system immediately** and check all ribbon cables for alignment / orientation errors.

# Locking Cover

The Performance Case Gen-2 comes with a metal cover that locks into place, protecting your modules from physical damage whilst also leaving enough room for them to remain patched together. If you're receiving a brand new case, the cover will already be fitted.

The sides of the lid sit in a groove between the Side Panels and the Rack Space. Four catches (two on each side) lock the cover into place. These are opened and closed with the **Cover Locks**.

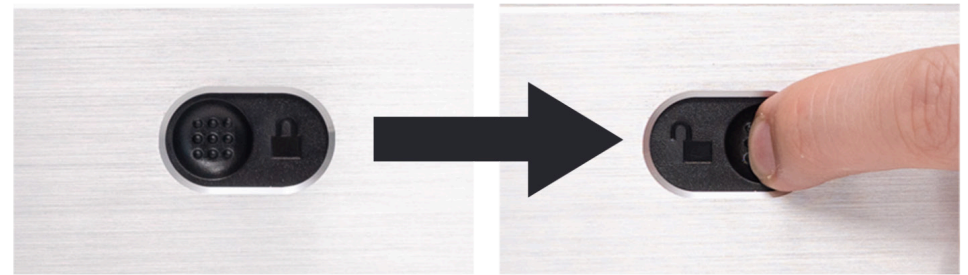
## To remove the Cover:

1. Lay the case down flat on a stable surface.
2. Slide the **Cover Locks**, located on the left and right side panels, to the *Unlocked Position* – indicated with an open padlock symbol (as shown).
3. Gently lift the cover upwards and it should come away.

## To put the Cover on:

1. Put the case down flat on a stable surface.
2. Ensure the **Cover Locks** are in the *Unlocked Position*.
3. Make sure there's nothing obstructing the grooves that the cover sits in, especially patch cables!
4. Align the cover with the grooves and place it down into them.
5. Gently push the cover down to make sure it is seated correctly, then slide the **Cover Locks** to the *Locked Position* – indicated by a closed padlock symbol.
6. Check that the cover is securely fastened by trying to lift it upwards.

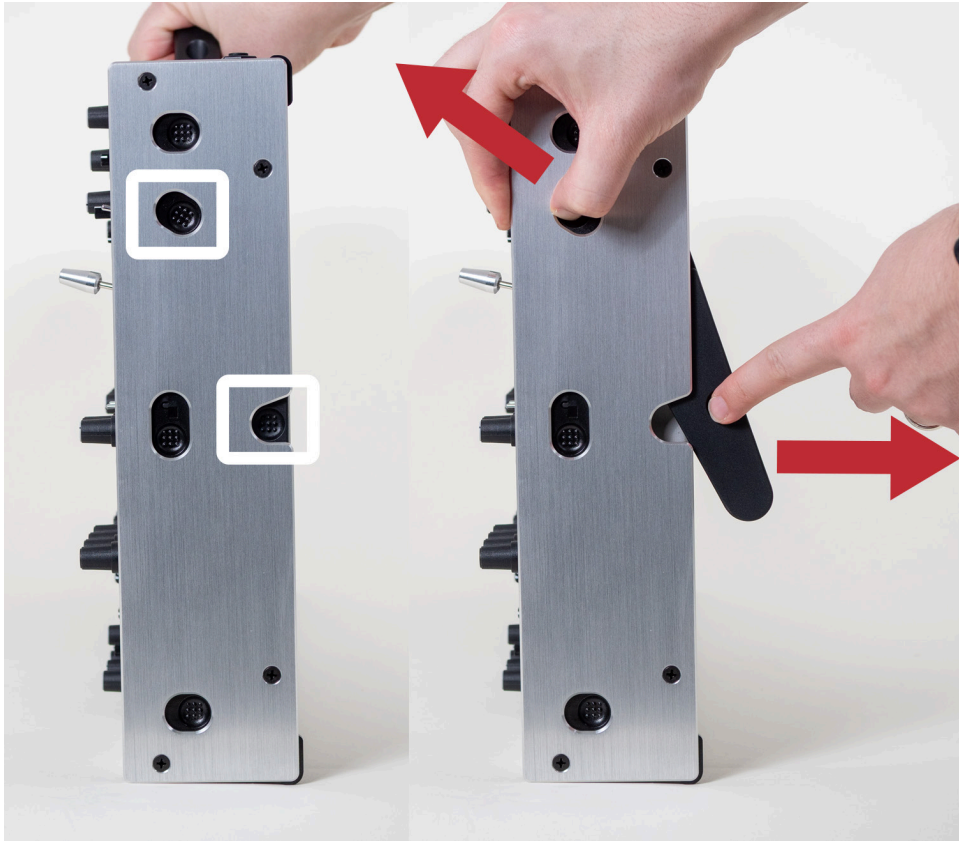
*Note: For additional protection when transporting your Performance Case Gen-2, consider the [Intellijel Gig Bag for 7U Performance Cases](#) (sold separately).*



# Built-in Stand

The Performance Case Gen-2 has a built-in stand to angle the case towards you, for more ergonomic viewing, patching and control access on a desktop. Two **Stand Legs** are hidden in the side panels – these fold out and lock into two different viewing angles.

## Opening the Stand



1. Position the case vertically on a flat, stable surface (as shown).
2. Slide the **Stand Lock** diagonally upwards towards the front of the case. Hold it in place, as it is spring-loaded.
3. With the other hand, pull the leg out using the indent in the side of the **Stand Leg**. When the indent is clear of the case, you can release the **Stand Lock**.
4. Continue to pull the **Stand Leg** out and round until you hear a “click” as it locks into *Position 1* (approx 90° to side panel).

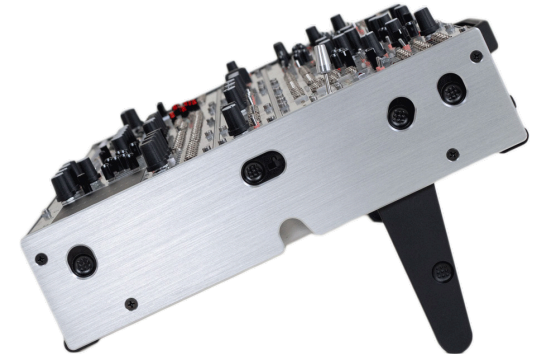
5. Repeat these steps for the opposite side so both legs are in *Position 1*. You can then lay the case back down onto the legs.

For a shallower angle, continue...

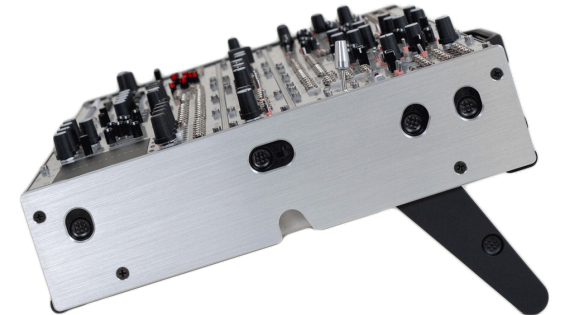
6. Slide the **Stand Lock** open again, and push the **Stand Leg** outwards past *Position 1* until it reaches *Position 2* (where it cannot rotate any further).
7. Repeat this for the opposite side, then lay down the case onto the legs

*Note: If you know you want Position 2, you can hold the Stand Lock open and rotate each leg until it reaches that position.*

*Position 1*



*Position 2*



## Closing the Stand

1. Position the case vertically on a flat, stable surface.
2. With one hand, slide the **Stand Lock** open and hold it in place.
3. Push the **Stand Leg** downwards so it rotates back into the side panel.
4. Once the **Stand Leg** is away, release the **Stand Lock**, and the leg should be locked inside the case. You can verify this by trying to pull it out again.
5. Repeat the same for the opposite side so both Stand Legs are away.

# Adjustable 1U Row

The position of the 1U Row on the Performance Case Gen-2 can be changed by the user – positioned at either the top (default), middle or bottom of the case.

## You will need:

- A M4 Philips-Head Screwdriver

## Before you start...

Consider the positioning of your 1U Modules. If you're using modules that connect to the Audio / MIDI Boards, make sure their ribbon cables will reach. We will have longer ribbon cables available as [Accessories](#) on our website.

## Instructions

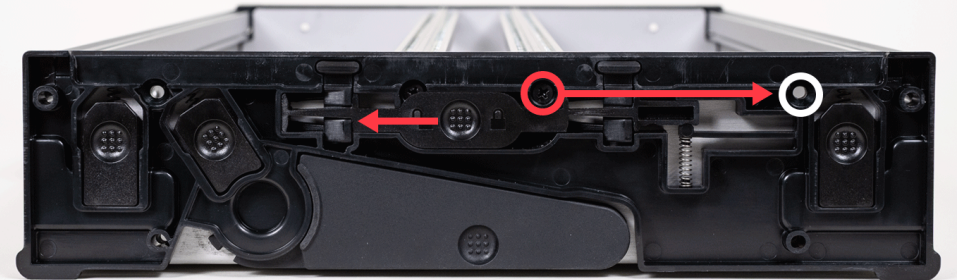
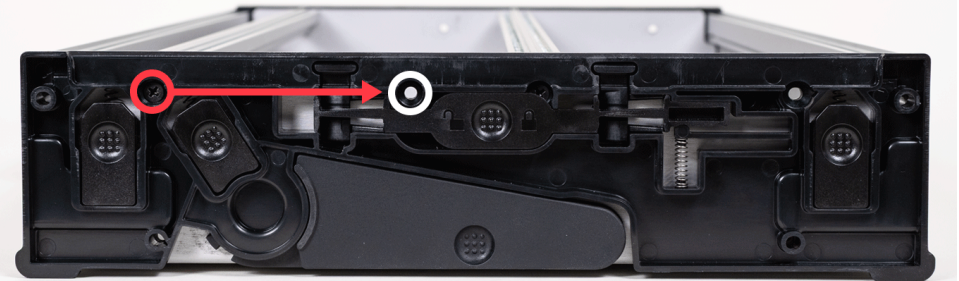
1. Disconnect power to the case and fully remove all modules so that it is empty.
2. *Top Image* - Remove the metal Side Plates by unscrewing the four black screws on each side (eight total).
3. *Middle Image* - Remove the two screws holding in the upper middle rail (bottom rail of the 1U Row at top) on each side (*circled red*).
4. Ease the rail out of the case. You can apply gentle outwards pressure to the sides of the case to make this easier.

**Do not remove the lower middle rail until the upper middle rail is screwed back into place – otherwise the plastic plates with the locks and stand legs can fall off and come apart.**

5. *Middle Image* - Ensure the **Cover Lock** is in the *Unlocked Position* (towards bottom) to expose the upper middle screw hole (*circled white*). Align the rail with these holes and screw it into place from both sides.

The 1U Row is now positioned in the middle – if this is what you want, reattach the Side Plates. If not, continue ...

← Top Left Side Bottom →



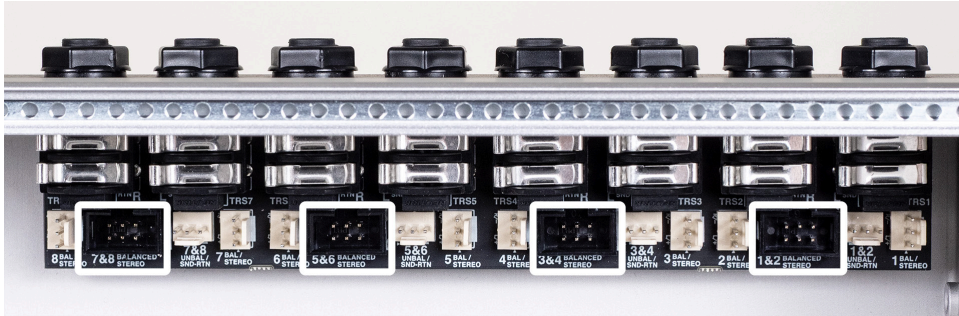
6. *Bottom Image* - Slide the **Cover Locks** to the *Locked Position* (towards top) to expose the screws holding the lower middle rail (*circled red*). Remove them and take out the rail.
7. *Bottom Image* - Locate the lower pair of holes on each side (*circled white*), align the rail in the case, and screw it into place. Then re-attach the metal side plates.

# Audio Board Connectivity

The passive **Audio Board** provides eight ¼" TRS jack sockets for audio (and CV) on Performance Case Gen-2. These sockets require our I/O modules to interface with your eurorack system – linking together with the 3-pin and 6-pin connectors on the board. This allows you to configure the I/O of your system however you'd prefer. There are three connection types on the **Audio Board**:

## Balanced Stereo – 6-pin

**TIP** – Positive, **RING** – Negative, **SLEEVE** – Ground



The four 6-pin connectors link the jack sockets into four balanced pairs – 1-2, 3-4, 5-6, 7-8. These can be used as balanced stereo pairs or two balanced mono channels.

## Unbalanced Stereo / Balanced Mono – 3-pin

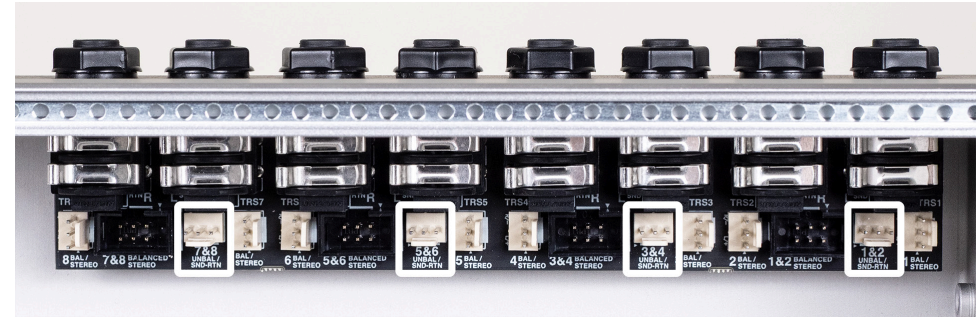
**TIP** – Left / Mono Positive, **RING** – Right / Mono Negative, **SLEEVE** – Ground



Each individual jack socket can be used as an unbalanced stereo or balanced mono connection via the 3-pin connector. With eight unbalanced stereo connections, you could potentially have 16 total I/O from your case.

## Unbalanced Mono Send / Return (Pedal I/O) – 3-pin

**TIP** – Send (ODD) / Return (EVEN), **RING** – Unused, **SLEEVE** – Ground



With modules such as the **Intellijel Pedal I/O 1U**, you can turn pairs of jack sockets into a mono send and return. Sends and returns are paired – 1-2, 3-4, 5-6, 7-8 – where the odd channels are sends, and the even channels are returns.

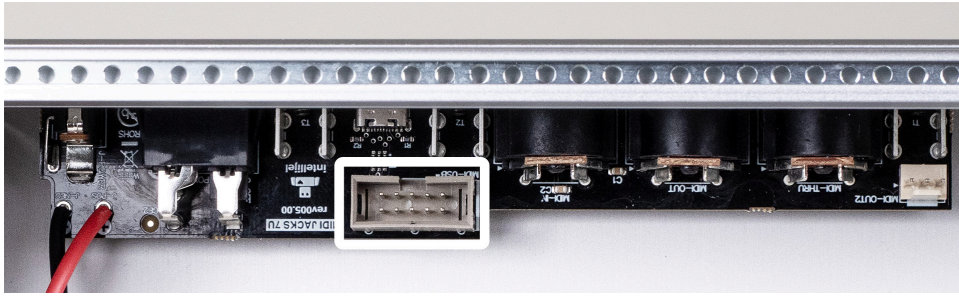
## Compatible Intellijel I/O Modules

The Audio Jacks Board is intended for use with Intellijel I/O modules. You can find more information about the compatibility of these modules in the Appendix of this manual.

See [Appendix I: I/O Module Compatibility](#) for more. →

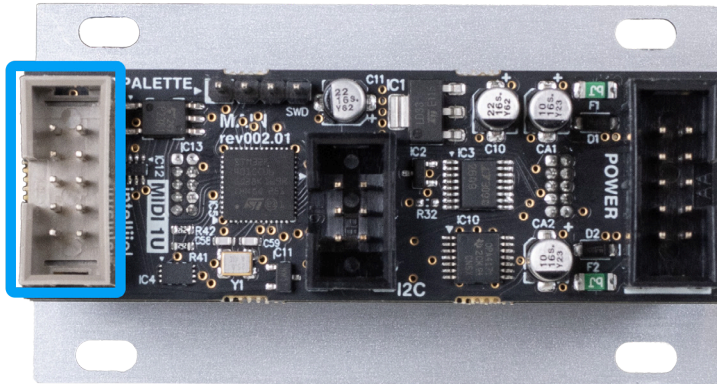
# MIDI + USB Connectivity + USB

Performance Case Gen-2 features 5-pin DIN MIDI IN, OUT, and THRU, plus USB-C connectivity. This allows you to connect your Eurorack system with DAWs, grooveboxes, sequencers, or any other MIDI enabled instruments. On the **MIDI I/O + Power Input Board**, the 10-pin header with grey coloured shroud connects the MIDI I/O to compatible modules.



## Connecting with Intellijel MIDI 1U (+CVX)

Use a 10-pin to 10-pin ribbon cable to connect the grey 10-pin header on the **MIDI I/O + Power Input Board** (above, circled white) to the matching 10-pin header on **Intellijel MIDI 1U** (below, circled blue).



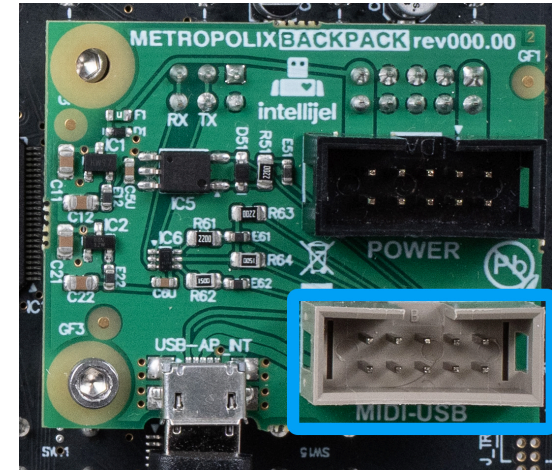
**!** Ensure that you have correctly connected the 10-pin MIDI headers to each other. **DO NOT** connect either MIDI header to a POWER header - this can cause damage to the module / board.

Once connected, **MIDI 1U** will receive MIDI via the 5-pin MIDI IN, or the USB-C connection. The USB-C connection can be used to configure **MIDI 1U** (plus

**CVX**) via the **Intellijel Config App**. You can also update **MIDI 1U**'s Firmware. Downloads and updates can be found on our [Support Page](#).

## Connecting with Metropolis Backpack

Connect the grey 10-pin header on the **MIDI I/O + Power Input Board** to the matching coloured header on **Metropolis Backpack** (below, highlighted blue).



**!** Ensure that you have correctly connected the 10-pin MIDI headers to each other. **DO NOT** connect either MIDI header to a POWER header - this can damage the module / board.

Once connected, **Metropolis** can send and receive MIDI via the 5-pin DIN connectors and USB-C. You can also update the **Metropolis** firmware via the USB-C connection.

## MIDI THRU

The THRU connector mirrors the MIDI IN signal. You can therefore use the Performance case as a link to daisy chain other MIDI devices.

## MIDI-OUT2 3-pin Connection

On the far right of the board, there is a 3-pin connector labelled "MIDI-OUT2". This is intended for future expanders – coming soon...

# VESA Mount

The Performance Case Gen-2 is now VESA Mount Compatible. Holes located on the back are positioned for a standard 100mm x 100mm VESA mount.

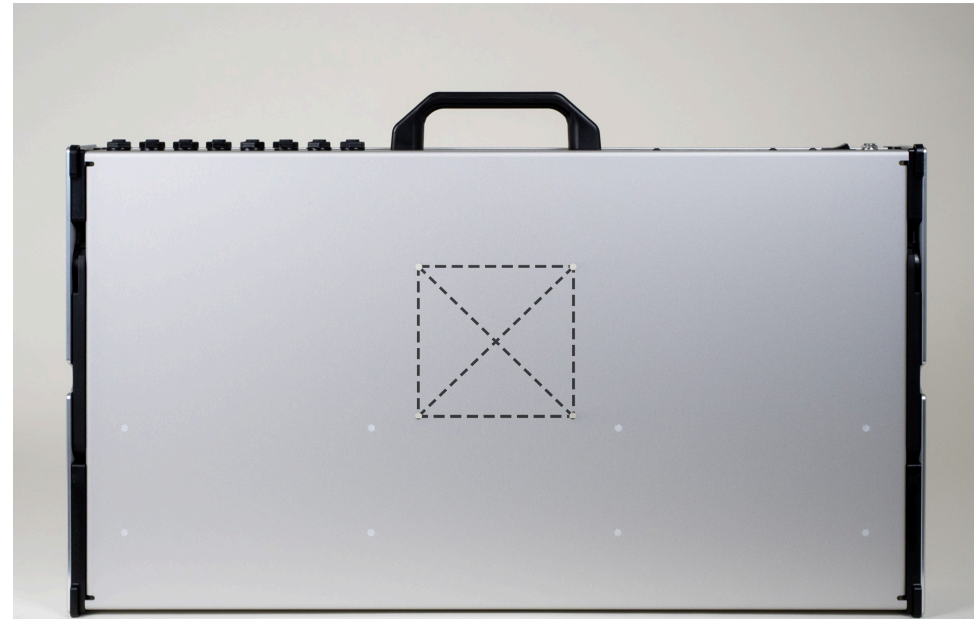
## You will need:

- **A VESA Mount Stand** - 100mm x 100mm. Must be capable of supporting the weight of your case with modules installed.
- **4 x M4 Screws/Bolts** - Recommended 8mm - 10mm long.
- **4 x M4 Nuts** - to secure screws into the case.
- **4 x Washers** - to create a secure fit with the VESA Mount.
- **Screwdriver / Wrench / Nut Driver** - appropriate for both the Nut and Bolt.

*Your VESA Mount Stand may come with nuts and bolts included. Check the fit before proceeding.*

## Instructions

1. Remove the lid, remove all modules and disconnect power from the case.
2. Assemble your VESA Stand by following the manufacturer instructions.
3. From a stable position, mount the case to the VESA Stand or Adapter by threading the bolts through from the inside of the case, through the VESA mount. This will give you the largest clearance when installing modules.
4. Thread the washer onto the bolt from outside the case and VESA mount.
5. Thread the nut onto the bolt, then use the appropriate tools to tighten the nut onto the bolt
6. Check all four nuts and bolts are tightened securely with the VESA mount.
7. Follow the VESA Stand instructions to correctly adjust and balance the stand with the case. Ensure that it is secure and stable before installing modules.
8. If installing modules where the case is on a VESA Arm Stand (*shown right*), rest the case on a flat surface while still attached. You will need to rebalance the stand once the modules are loaded.



# Case Joiner Plates

If you have two Intellijel 104HP x 7U Performance Cases, you can link them together using our [Intellijel Joiner Plates](#) (sold separately). The **Joiner Plate Lock** mechanism on Gen-1 and Gen-2 cases is the same, meaning that you can combine the original 104HP x 7U case with the newer version.

*Note: The 84HP x 7U case will not fit with either 104HP x 7U case using the Joiner Plates.*



*Above: Joiner Plate slot locations top and bottom.*

## Attaching Cases together with the Joiner Plates

1. Remove the Cover and disconnect power from both cases. Patch cables and modules can be removed, but it is not necessary.
2. Starting with the *Bottom Case* laying down flat on a stable surface, lift up the top side (handle), and align a **Joiner Plate** with one of the top side **Joiner Plate Slots** (shown above).
3. Insert the **Joiner Plate**, orientated as shown, and push into the slot until it locks with a click. Repeat for the other side.
4. *The Bottom Case* should now be resting at an angle on the two **Joiner Plates** (as shown on right)

Continue to the next page for the *Top Case*. →



*Bottom Case Joiner Plate Positions*

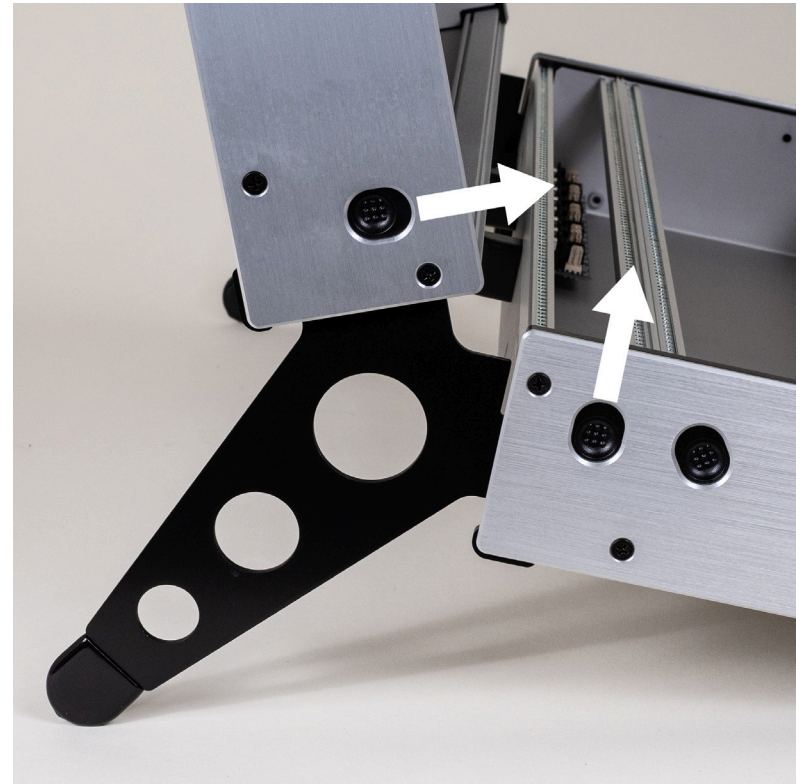
5. Take the *Top Case* and locate the **Joiner Plate Slots** on the bottom corners (*shown on the previous page*).
6. Lift the *Top Case* up, and guide it onto the **Joiner Plate** arms.
7. Gently ease the *Top Case* down on the **Joiner Plate** arms until the **Joiner Locks** click.
8. Check the stability and alignment of the plates - if anything is wrong, check that the plates are correctly seated. Otherwise, you're ready to go!



*Top Case Joiner Plate Positions*

## Detaching Cases from the Joiner Plates

1. Remove any interlinking cables between the two cases, and disconnect power from both.
2. Hold the sides of the *Top Case* and use your fingers to slide the **Joiner Locks** open.
3. Continue to hold the **Joiner Locks** open, and lift the *Top Case* upwards.
4. Once clear of the **Joiner Plate** arms, you can release the Locks and place the *Top Case* down securely.
5. Lift the top side (handle) of the *Bottom Case* or place it in a vertical position.
6. Slide open one of the **Joiner Plate Locks**, hold it in position, then pull out the Joiner plate - repeat for the opposite side.



# Technical Stuff

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## Case Dimensions

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<b>Rack Height:</b>	7U Total - 3U Row x2, 1U Row x1 - Adjustable Position
<b>Rack Width:</b>	104HP
<b>Rack Depth:</b>	73mm - Max Depth 50-62mm - over PSB 43-62mm - over Audio/MIDI Boards
<b>Dimensions:</b>	556.5mm x 352.9mm x 146.4mm – with Cover 556.5mm x 352.4mm x 79.6mm – without Cover
<b>Case Weight:</b>	4.1kg (unloaded, inc. Cover)

## Power Supply Board – TPS135W

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<b>Ext Power Supply:</b>	Mean Well GSM90A15-P1M – 15VDC, 6.0A, 90W
<b>Input type:</b>	15VDC, 2.5mm x 5.5mm barrel jack connector
<b>PSB Dimensions:</b>	497mm x 80mm x 14.5mm
<b>Maximum Outputs:</b>	6.0A (max) @ +12V (72W max) 5.0A (max) @ -12V (60W max) 2.0A (max) @ +5V (10W max)
<b>Peak Efficiency:</b>	95% with ~3A load
<b>Power Outputs:</b>	Shrouded 16-pin Eurorack Power Connectors x 34 +5V/Gnd Molex Headers for <b>Intellijel USB-Power 1U</b> x2
<b>Gate / CV Bus:</b>	Doepfer Standard 2-pin Gate Bus Header x1 Doepfer Standard 2-pin CV Bus Header x1

## Audio I/O

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<b>Ext Connections:</b>	Neutrik ¼” Balanced TRS Jack Sockets x8
<b>Int Connections:</b>	Balanced Stereo - 6-pin x4 T = Tip R = Ring S = Sleeve
	T = Positive, R = Negative, S = GND
	Unbalanced Stereo / Balanced Mono - 3-pin x8 T = L / Mono Positive, R = R / Mono Negative, S = GND
	Unbalanced Mono Send/Return - 3-pin x4 T = Send (Odd) or Return (Even), R = Unused, S = GND

## MIDI I/O

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<b>5-Pin DIN:</b>	In, Out, Thru
<b>USB:</b>	USB-C – MIDI, Device Connectivity
<b>Compatible with:</b>	Intellijel MIDI 1U (+CVX 1U) Intellijel Metropolix Backpack

## Stand Options

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<b>Built-In Stand:</b>	Fold-out legs x2 Two Positions
<b>VESA Mount:</b>	100mm x 100mm M4 Thread (Nuts, Bolts and Washers not included)

## Accessories (Sold Separately)

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<b>Gig Bag:</b>	Padded Gig Bag with pockets and a strap for Transportation.
<b>Joiner Plates:</b>	Stack together two Performer Cases Compatible with Gen-2 and Gen-1

# Appendix I: I/O Module Compatibility

Correct as of the date shown on the front page of this manual.

Intellijel I/O Module	Balanced Stereo Pair 6-pin	Unbalanced Stereo Single 3-pin	Unbalanced SND/RTN Pair 3-pin
Stereo I/O 1U	BAL-IN, BAL-OUT UNBAL-IO	UNBAL-IN UNBAL-OUT	UNBAL-IN UNBAL-OUT (Note: 2 x TS In or Out - No Snd/Rtn)
Stereo Line In 1U	BAL-IN	No	No
Stereo Line Out 1U	BAL-OUT	No	No
Stereo Mixer 1U	No	CHAIN-IN, CHAIN-OUT	CHAIN-IN, CHAIN-OUT (Note: 2 x TS In or Out - No Snd/Rtn)
X-Fade 1U	No	MIX-OUT	MIX-OUT (Note: 2 x TS Out - No Snd/Rtn)
Aux Mix 1U	No	CHAIN-IN, CHAIN-OUT AUX-IN, AUX-OUT	CHAIN-IN, CHAIN-OUT AUX-IN, AUX-OUT (Note: 2 x TS In or Out - No Snd/Rtn)
Switched Mult 1U	No	JP1 / JP2 CHAIN (IN or OUT) X = TIP, Y = RING	JP1 / JP2 CHAIN (IN or OUT) X = Odd Ch, Y = Even Ch (Note: 2 x TS In or Out - No Snd/Rtn)
XY I/O 1U	No	JP1 - X 2ch IN or OUT JP2 - XY IN or OUT JP3 - Y 2ch IN or OUT	JP1 - X TIP = SND, X RING = RET JP2 - X = SND, Y = RET JP3 - Y TIP = SND, Y RING = RET
Pedal I/O 1U	No	P-PEDAL TIP = SND, RING = RET	P-PEDAL
Mixup 3U	No	CHAIN-IN, CHAIN-OUT	CHAIN-IN, CHAIN-OUT (Note: 2 x TS In or Out - No Snd/Rtn)
Stomp 3U	No	P-PEDAL TIP = SND, RING = RET	P-PEDAL

# Appendix II: Power Supply Details

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This appendix provides more information to help you make sure your system is within the operational limits of the power supply.

## Current

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As mentioned earlier in the manual, the total current draw of all modules in a system must not exceed the limits of the Power Supply Board. To give an example of how this works, we're going to create an 'imaginary system' with six modules. Here is the current draw of the 'imaginary modules' totalled together at each voltage:

	+12V	-12V	5V
<b>Module 1</b>	800mA	400mA	0mA
<b>Module 2</b>	900mA	400mA	0mA
<b>Module 3</b>	500mA	250mA	0mA
<b>Module 4</b>	800mA	300mA	0mA
<b>Module 5</b>	700mA	250mA	0mA
<b>Module 6</b>	300mA	150mA	0mA
<b>Totals</b>	4.0A	1.75A	0A
<b>Case Max</b>	6.0A	5.0A	2.0A

The current values in our 'imaginary system' are below the maximum values for the Power Supply Board - which is good. However, current is not our only consideration here...

## Wattage

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The wattage of the power supply is important in determining whether it will deliver enough power to your system. Performance Case Gen-2 is currently shipped with a Mean Well external power supply rated at 90W. The Power

Supply Board – **TPS135W** – is rated for 135W, so it can take an external power supply with a higher wattage if required.

To work out the wattage requirement of your system, you will need to multiply each voltage value on the Power Supply Board by its respective current draw from all modules in the system. We then add these values together to get the total power required from the Power Supply.

Let's use our 'imaginary system' as an example:

$$(12V \times 4.0A) + (-12V \times 1.75A) + (5V \times 0A) = 48W + 21W + 0W = \underline{69W}$$

*\*ignore the negative of this voltage value*

This is less than the 90W provided by power supply, *and* our current values are below the limit. This is a good sign, but there is just one more factor to consider...

## Efficiency

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No Power Supply is 100% efficient, and this needs to be taken into account. It's quite simple – we need to multiply the wattage of the power supply by its stated efficiency.

The Mean Well Power Supply that we provide with the Performance Case Gen-2 is 95% efficient.

$$\text{Therefore: } 90W \times 95\% = \underline{85.5W}$$

In the context of our 'imaginary system', our power requirement is 69W, which is still below the power output of the supply. Therefore, we can confirm that the power supply is going to work for our system.

It is unlikely that your system will ever exceed the power limit of the supply when using a standard selection of modules, but keep in mind that it is possible. If you're ever unsure - please [contact support](#).