



Before we get into this super exciting user guide, we would just like to share a few words of appreciation

In a market dominated by generic designs, marketing fads and RGB lighting, we are on a mission to create products that are not just different for the sake of it, but incorporate quality materials, superior finishing, and innovate at every level. These qualities are not easily conveyed in an industry preoccupied with specs, numbers and flashing lights, so your choice shows an appreciation and understanding of what makes our products different, and we sincerely thank you for that.

We genuinely do our best to ensure that all our products are manufactured to the highest quality and finish we can achieve. If anything falls short of your expectations or you have any questions that are not covered in this user guide, please do not hesitate to get in touch with us online. We respond to every question or comment and your feedback is a critical part of our ongoing product development and of course our commitment to offer you the best service possible.

From everyone in the team, we hope that you have a great experience with this product :)

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It's not rocket science, but our cases can be slightly more challenging to assemble because we don't follow the typical mass production oriented design but instead try to offer greater flexibility and designs that break the mould. This greater flexibility does however mean component locations are not fixed and therefore overlaps and conflicts can occur, so a bit of extra planning is suggested. It's also important to note that this guide will only show a 'standard' build, but there are many alternative layouts and configurations possible. We do not provide a detailed explanation on any of the advanced options because it does require you to be confident with modding and being able to figure things out for yourself. To avoid frustration, please take the time to read the user guide and become familiar with the product and assembly procedure. Additional information and help is also available on our website or by contacting our support team.

Several different screws will be utilized in the assembly so the user guide indicates which screws should be used and their corresponding fixing location. Screws are defined by head type, e.g. 'Philips countersunk' and by thread and length e.g. 'M3x6', and will be labelled accordingly, e.g. PCS-M3x6. For the standard assembly you will only need a Philips screwdriver, but if you plan on a more advanced build such as flipping the motherboard orientation, you will also require a Hex screwdriver, both 2 and 2.5mm are suggested (depending on what needs to be disassembled)



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Specification

Form Factor: SFF Mini Tower CPU Cooler Max Height: 145mm PCI Support: Dual Slot, $330 \times 150 \times 50mm$ (L x W x H) Fan Support: 40 to 200mm, 92mm (rear) Drive Support: 3 x 3.5" or 6 x 2.5" (per drive bracket) PSU Support: SFX, SFX-L and ATX⁺¹ Dimensions: 340 x 286 x 180mm, 17.5 ℓ Motherboard Support: Mini-ITX / Mini-DTX^{*2} Water Cooling Support: 120 to 280mm Front Port: USB Type-C (3.0 upgradable to 3.1) Primary Material: Aluminium 6063 Finish: Sandblast, with Silver / Black / Titanium Colours RGB Lighting: Seriously? No! Weight: 3.9kg

> ^{*1} Will limit maximum GPU length to 220mm ^{*2} Not compatible when using the Vertical GPU Kit

Overview



Remove the Side Panels

Each side panel is held in place by a simple mechanism that applies pressure using 4 rubber catches located at each edge against the upper and lower frame of the case. To remove the side panels, reach though lower opening on the case and pull the edge away from the case whilst applying slight pressure downwards to the upper edge. Once the lower edge has cleared the frame, the side panel will be loose and can removed from the case. The key point to note when removing the side panel is to only pull against one edge of the panel and not both at the same time. Both side panels are symmetrical and interchangeable.







Remove Brackets

The DA2 uses a system of brackets to mount hardware inside the case. These brackets come pre-fitted in the case at the default locations for a layout build standard build, but can in principle be located anywhere along the frame. Their usage will be covered in more detail later in the guide, but for now they should be removed before installing the motherboard.

Each bracket is secured using a single screw and nut, one on either side, simply loosen the screw to release the bracket. Note that the screws do not need to be removed but just loosened and should remain attached to the nut. They can be slightly re-tightened once the brackets are removed so that they do not slide around and come loose from the frame.

Make sure NOT to remove the motherboard brackets! They should be easy to distinguish as HEX, not Philips screws are used to secure them.



Mounting Brackets Above the Motherboard (Optional)

The space above the motherboard can also be utilised for mounting hardware such as fans, but due to the tight tolerances between the motherboard and frame, the brackets for this specific location must be installed prior to installing the motherboard.

The spacing of the horizontal brackets does also need to be taken into consideration as the motherboard brackets already pre-determined positions that might conflict with the spacing required for the hardware being fitted there, so a test fit is recommended.

Motherboard Orientation (Optional)

Not part of the standard installation procedure, but worth noting that the motherboard orientation can be flipped should that provide some specific advantage to your planned build.

This is achieved by removing 4 screws which secure the back panel to the frame, rotating it 180 degrees, then replacing the 4 screws. In addition, the motherboard brackets need to be moved to the other side of the case in their corresponding location. This procedure will require a 2mm HEX screwdriver. There are some markers printed on the edge of this page back page that indicate the correct spacing for the motherboard brackets.



Flipped - 📂





Install the Motherboard I/O Shield

Locate the I/O shield supplied with your motherboard and firmly push it in place from the inside of the case, making sure the orientation is correct. It's important to make sure it is properly fitted otherwise the motherboard will be difficult to install and not align correctly with the stand-offs.

Prepare the Motherboard

Whilst it is possible to populate the motherboard with components once it's fitted inside the case, it is generally easier to fit the CPU, RAM and cooler prior to this. Please refer to the user guides supplied with each component for exact installation procedure as the image below is just for reference.

If using an AIO water cooler, we recommended installing it after all the other hardware has been fitted to the case. The tubing and radiator will make working with the case more difficult due to the bulk and as the radiator will typically be mounted to the side, fitting it will obstruct the installation of other components. You can still fit the mounting mechanism but even if you don't, there is unobstructed access to the back of the motherboard so this can be done later.





Install the Motherboard

Carefully position the motherboard into the case, with the rear I/O port side first so that the ports align with the matching cutouts on the I/O shield.

When the motherboard is correctly in position, secure it to the stand-offs on the universal brackets using the screws provided. Ensure that all the holes correctly align before fully tightening the screws.

The use of universal brackets means there is almost no obstruction to the back of the motherboard so M.2 cards, for example, can be added or changed with ease.

Note that if your motherboard features an oversized I/O design that conflicts with the cable exiting the IEC (C14) socket, it can be rotated 180 degrees so that the cable exits away from the motherboard.

Introduction to the Universal Bracket

The universal bracket is a concept we originally introduced on the F12C and DB4 cases. The basic idea is that any and all hardware can be fitted to a universal bracket (hence the name universal) which can then be located anywhere along the frame of the case. This approach gives incredible flexibility to the component layout and improves hardware compatibility, but does require additional planning as the lack of dedicated bays can create component overlaps if not properly considered. Each bracket is held in place by a screw and nut at either end, which is captive by the track in the frame and can slide along the entire length. Nuts can be added or removed using the 2 cutouts in the frame to allow for additional brackets or relocating them as required.



There are 2 sizes of universal bracket supplied, the Vertical that mounts along either side of the case and the Horizontal that mounts to the upper and lower sides of the case. The brackets have holes for pre-defined hardware locations such as the motherboard, and slots that allow hardware to be fitted anywhere along the length. The inner slot on the Vertical bracket is narrower and designed for M3 screws whilst all the other slots are wider to allow for fan screws, but washers are supplied to allow M3 screws to use the wider slots.



Using the Universal Bracket

The universal brackets are incredibly versatile and in principle, there is no wrong way to use them, the main limitation is the space available and how creative you want to get. Fan screws and washers are supplied but typically the hardware being mounted will be supplied with the correct screw thread and length. Below are just a few examples of what can be mounted using the vertical brackets, with the bottom row showing the horizontal bracket usage.



280mm Radiator



140mm Radiator



180mm Fan





3.5" Drives



150mm Reservoir



Water Pump



2.5" Drives (with drive bracket)



140mm Fan

Drive and PSU Brackets

In addition to the universal brackets, there are 2 dedicated brackets included, the PSU bracket which supports SFX/SFX-L, and the Drive bracket which can accommodate 3 x 3.5" or 6 x 2.5" drives and of course a mix of both (each 3.5" drives occupies the equivalent space of 2 x 2.5" drives). These additional brackets come fitted to the horizontal universal brackets using pre-defined mounting holes, but they can, of course, be re-arrange or mounted anywhere along the bracket and even fitted to the vertical bracket if needed. They can also be used in combination to mount an ATX PSU using the ATX slots and 3 screws (the 4th hole will not be required) but this is at the expense of drives and maximum expansion card length as it will occupy additional space.



Fit the PSU and Drive Brackets

Fit the PSU and drives to the brackets then install the assembly back into the case. We recommend using a modular power supply as this will help with cable management in the confined space. If possible, custom cables should also be considered to further improve routing and airflow. Don't forget to connect the IEC plug to the PSU and turn it on before you fit the assembly into the case as you will not have access to the socket or switch ones it has been fitted.

Now is also a great time to tidy up the cables in preparation for installing a PCI card and the final step of fitting any vertical brackets and hardware mounted to them. Note that the PSU and Drive brackets have some cable tie points to assist with cable management. If the IEC plug conflicts with the cable tie points on the bracket, simply rotate the bracket 180 degrees.



When fitting the brackets, there is no need to work against gravity, simply lay the case on its side or even upside down, to make the installation easier. Make sure to secure the screws on both sides of the brackets.

The power switch / LED cable and USB cable can also be connected to the motherboard at this time, see diagram on next page for wiring details.



PSU Standoff and Spacer Usage (Optional)

We include 2 additional parts with the accessories that can be useful is specific situation. The 2mm spacer can be used if your PSU has a power switch that is located too close to the edge and interferes with the bracket. If needed, simply install the spacer between the PSU bracket and the PSU so that it creates a gap and clears the lip of the switch.

It is possible to mount a slim fan above the PSU however the power cable plug will interfere with this. To overcome this, we have included some standoffs that will lower the PSU by 14mm, give the additional clearance needed. To use them, screw the standoffs to the PSU bracket then screw the horizontal brackets back to the standoffs.



Connect the Front I/O Power Switch / LED and USB

Motherboard layout and pinout shown are for illustrative purposes only, these will vary between model and manufacturer, so please check the supplied user guide for exact connection details.

When connecting the power LED, ensure correct polarity otherwise the light will not illuminate. The orientation/polarity of the power on/off switch (PSW) is not important and can be ignored, and the connectors are individual to allow for motherboards that use a 3 Pin layout. A reset switch is not included, but holding down the power button for 5 seconds usually serves the same function. Drive activity is also not included, this is a legacy feature we have chosen to omit.

The 19 PIN USB3.0 connector is polarised and will only connect in the correct orientation. A planned optional upgrade for USB3.1 Gen2 will be made available in the form of a new USB cable which can be installed by removing the 2 Hex screws securing the Type-C connector to the front I/O, then fitting the new cable. Both the Switch / LED PCB and the USB Cable can be rotated 180 degrees on the front I/O to route the cables in the opposite direction if there if you have a requirement for that in your specific build.



Install a PCI Expansion Card

The DA2 supports a full-length dual slot expansion card. To install a card, begin by removing the pre-installed PCI blanking plates which are secured to the PCI mount by a single screw for each plate. From the inside of the case remove the single screw which secures the PCI mount to the back of the case. The brackets and PCI mount will now be loose and can be removed from the case.



Align the expansion card with the edge of the motherboard PCI slot at an angle so that the back of the card clears the PCI mount opening, then slowly insert the card so that its correctly seated in the PCI slot. The card is then locked in place by replacing the PCI mount using the same single screw from the inside, then attaching the card to the PCI mount.





Once you are confident that everything will fit, attach the vertical brackets to the radiator using the screws supplied with it. Apply thermal paste then fit the CPU block to the motherboard. Connect the pump and fan cables, then attach the radiator to the frame using the screw+nut in the appropriate location. You can always adjust the exact position of the radiator along the frame tracks and bracket slots.

Its also recommended to make sure all the cables are properly routed and tied down to avoid contact with the fans, and that everything has been connected as access will be blocked by the radiator.

Install Vertical Bracket Hardware (AIO Cooler Example)

The images on page 8 show some examples of hardware that can be fitted on the vertical brackets. For this specific example, will we demonstrate fitting a 240mm radiator, but the same principles apply to any other hardware being fitted.

A key element when planning and using the brackets is to consider how much space is available behind them. Typically an SFX PSU will be used which leaves 82mm of clearance for the radiator. It is therefore important when choosing a radiator to consider the radiator thickness + fan thickness + tubing, so make sure it can fit within that space.

The dimensions shown in the example are absolute maximums, so it is also worth allowing a few mm of additional space for tolerances.

For more detailed measurements we have made 3D models of the case available and these can be used to check all dimensions and plan the build accordingly.



Upper & Lower Acrylic Panels

The upper and lower sides that form the main compartment of the case each comprise of 2 acrylic panels that sandwich a PVC net, allowing air to flow though the case in a vertical direction.

The inner panels feature cutouts along the edge that provide an alternative location for fitting fans using silicone mounts. If used instead of the horizontal brackets, they save 14mm of space and if combined with low profile fans, can greatly improve cooling without conflicting with typical component placement.



NET / Filter Inner Panel Silicope Ean Mount

The outer panel which is slightly thinner, allowing it to flex, must be removed to access the nets for cleaning or fit fans to the inner panel. Both panels sit inside a track in the frame but the inner panel is narrower to make removal easier. There are however 3 notches along both sides of the panel extend fully into the tracks, when the panel is flexed, these notches should clear the edge of the track, allowing it to be removed.

Note that whilst the acrylic material can bend, excess force can cause it to crack and care should be taken with removing and fitting the panels.

Fitting a Fan to the Inner Acrylic Panel (Optional)

If you are planning to use this method for mounting fans, it is recommend to install this prior to any other hardware as you will have less obstructions during the process.

Place the silicone mounts through the appropriate slots in the panel, depending on 120 or 140mm fans, then pull them through the mounting holes in the fan. The mounts have ribs along their length to accommodate different fan thicknesses so can be used with virtually any 120 or 140mm fan. The mounts are longer than they need to be for ease of fitting and if you don't plan on frequently changing of adjusting fan location, the excess length can be cut once the fan is installed.





When resting the upper edge of the side panel, make sure the rubber catch is correctly positioned on the frame otherwise it will be difficult to

push the lower edge onto the bottom frame.

The case also includes a side net which can be fitted depending on the airflow and cooling strategy you have implemented. We recommend only using the net if air is being drawn though it from the side panel as installing it will impede airflow and is not required or useful when air is being expelled from the case.

The net is magnetic and will stick to the vertical frame of the case and should be attached centrally between the upper and lower tracks. Fitting the side panel will further secure the net to the case.

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