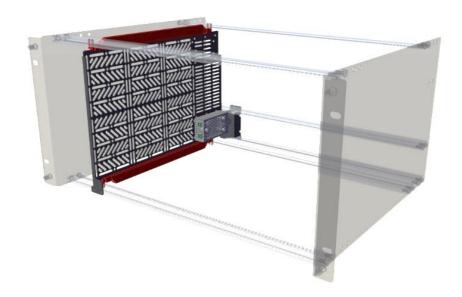
ONErack patent pending Installation Guide



ONErack module

MNL-1RK-MOD v1.10



Tools

Pozidriv® PZ2 crosshead screwdriver

2 mm flathead screwdriver

Wire cutter

Wire strippers

Voltmeter

Optional:

Self-adhesive hook and loop

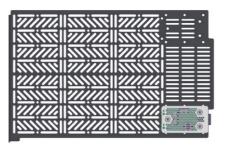
Scissors

Cable ties

Third-party mounting hardware

In the box

 ONErack module, including voltage selector



1 Daisy-chain cable



2 Guide rails



1 Rear dock



3 Power connectors



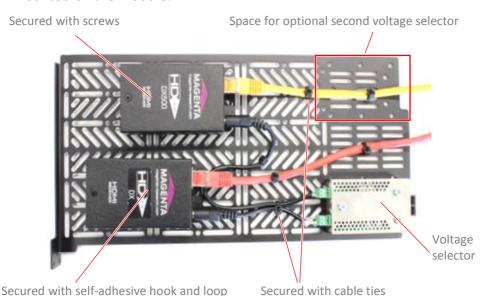
4 M3 screws



In the unlikely event that a component is missing or damaged, please contact tech.usa@tvone.com or tech.europe@tvone.com

About ONErack modules

The innovative ONErack module enables you to efficiently mount multiple devices. The module provides adjustable voltage and supports many ways to mount devices and secure cables. When you add a second voltage selector, you can provide two voltage options to devices mounted on the module.



Tips for mounting your devices

When you choose how to place your devices:

- Make sure you have enough cable to be able to access any sources, for example, Ethernet or external power.
- Allow enough cable to pull the module forward so you can access your devices. If your cables are short, consider mounting the device further back on the module.
- Make sure you allow enough room around each device for ventilation.

Powering ONErack modules

ONErack modules are designed to work with the ONErack internal power supply, but there are other options – you could use pass-through power or an external power supply.

ONErack internal power supply

The internal power supply works with the voltage selector to give you seven DC voltage options:

5 V @ 7 A	13.5 V @ 2.6 A
7.5 V @ 4.7 A	18 V @ 1.9 A
9 V @ 3.9 A	24 V @ 1.5 A
12 V @ 2.9 A	

ONErack pass-through power

If the voltage your device needs is not available from the voltage selector, then you can connect your device's power supply through the dock. You can then supply power to multiple devices, but at a fixed voltage. You can use a power supply up to $24 \ V \ @ 1.5 \ A$.

External power supply

If you don't want to cut your power lead, you can bypass the dock and connect your power supply directly to your device. With this method you can only provide power to a single device.

Fitting ONErack modules – overview

This installation guide assumes you have already built a ONErack chassis and fitted an internal power supply, or chosen an alternative power supply. For more information, see Powering ONErack modules on page 4, and the installation guides for the chassis and internal power supply.

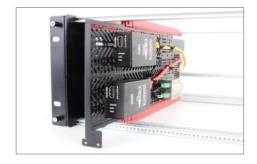
1.	Mount one or more devices on your ONErack module.	рЗ
	We recommend that you mount at least your tallest	
	device.	
2.	Fit the guide rails and insert the module.	p6
3.	Fit the dock and secure it with two M3 screws. Use the	p6
	module as a guide to align the dock.	
4.	Optional: fit all your remaining modules.	
5.	Mount any remaining devices, select a voltage, then	р7
	connect and secure your device cables.	
6.	Insert the module and power on the ONErack system.	

Fitting the guide rails and dock

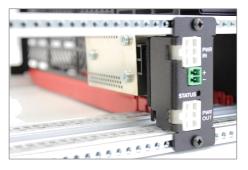
To avoid damaging your ONErack, build it in a clean, tidy area.

Before you fit the guide rails and dock, mount at least your tallest device on the ONErack module. This helps you to determine the positions of the modules. If you intend to fit several modules at once, fit each one with the tallest device for that module.

- Clip the guide rails into the lower and upper mounting rails. Use the numbers to help you fit the guide rails straight and in line with one another. Make sure the groove is on the right when you look from the front of the chassis.
- 52 1 E2 12 69
- 2. Slide the module into the groove in the guide rails.
- Screw the module in place temporarily with one or two M3 screws.



- 4. At the rear of the chassis, push the dock into the voltage selector. Use the module to help you align the dock.
- 5. Screw the dock in place with two M3 screws.



Connecting cables

Before you connect your cables, finish mounting your devices.

Connecting your devices to the internal power supply	р7
Connecting your devices to pass-through power	p10
Connecting your devices to external power	p12

Connecting your devices to the internal power supply



Risk of damage to equipment

- Make sure you set the voltage selector to the correct value for your device or devices.
- Do not connect two devices that need different voltages to the same voltage selector.
- If you have devices that need different voltages, fit a second voltage selector or use a second ONErack module.
- Do not rotate the voltage selector switch when the ONErack system is powered.
- Before you cut any power leads, record the polarity and voltage for each one with a suitable meter.
- Before you connect any rewired DC power connector to any device, check that the polarity and voltage match what you recorded before you cut the power lead.
- Remove your device's power lead from the mains supply before you cut the cable.
- Cutting power leads should only be done by competent, qualified personnel – if in doubt, consult a qualified electrician.
- The internal power supply can supply up to 200 W to a single daisy-chain, or up to 250 W across two daisy-chains.
 Do not overload the internal power supply. If the internal power supply is overloaded, it will not start.
- Each module can supply up to 35 W. Do not overload the modules.

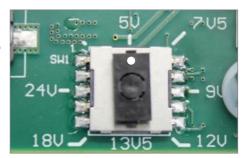
 Remove the screws holding the ONErack module in place and remove the module.



Undo the screws on top of the voltage selector and remove the cover.



 Turn the switch inside the voltage selector until the white dot points to the right voltage for your devices.



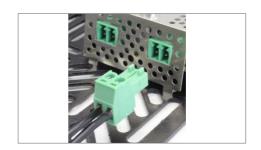
- Cut the power lead for your device.
 - Make sure you leave enough length to reach the voltage selector.
- Strip the insulation from the ends of the wires and identify which is positive and which is negative.



6. Insert the stripped ends into the power connector. Make sure that the polarity is correct, as shown, before you tighten the screws.



7. Insert the power connector into the voltage selector.



- Use a long daisy-chain cable to connect the internal power supply to the module.
 When you connect further modules, use the shorter daisy-chain cables to connect the output of the last dock to the input of the next dock.
- Check that all your devices are connected with the correct voltages.
- Connect the internal power supply to the mains system and check that your devices work correctly.
- 11. Connect your module to the dock and screw it in place.



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Connecting your devices to pass-through power

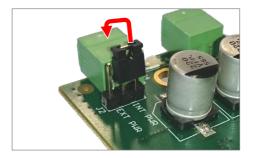


Risk of damage to equipment

- Before you cut any power leads, record the polarity and voltage for each one with a suitable meter.
- Before you connect any rewired DC power connector to any device, check that the polarity and voltage match what you recorded before you cut the power lead.
- Remove your device's power lead from the mains supply before you cut the cable.
- Cutting power leads should only be done by competent, qualified personnel – if in doubt, consult a qualified electrician.
- Each module can supply up to 35 W. Do not overload the modules.
- Undo the screws on top of the voltage selector and remove the cover.



 Move the jumper from INT POWER to EXT POWER.
 Any power connected to the voltage selector now bypasses the voltage selector switch.



3. Cut the power lead for your device.

Make sure you leave enough length to reach the voltage selector.

- 4. Strip the insulation from the ends of the wires and identify which is positive and which is negative.
- Insert the stripped ends into the power connector. Make sure that the polarity is correct, as shown, before you tighten the screws.



6. Insert the power connector into the voltage selector.



Repeat step 5 for the other piece of the power lead.



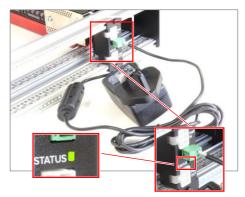
- 8. Disconnect the module from the dock.
- 9. Check that all your devices are connected with the correct voltages.

- 10. Insert the power connector into the dock.
- Plug the power lead into the mains supply.
 If the STATUS LED is green, the polarity is correct. Proceed to the next step.

If the STATUS LED is red, the polarity is not correct. Repeat step 7.

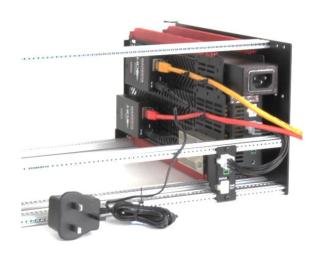
If the STATUS LED is orange, the power lead is for AC power and is not supported by the ONErack system. Use the external power method on page 12.

12. Connect your module to the dock and screw it in place.



Connecting your devices to external power

You can connect any of your devices using its own power supply.



Safety



Risk of damage in transit

Your ONErack and devices can be damaged in transit.

- Do not ship the ONErack system with modules fitted.
- Package modules separately.
- You can ship modules with mounted devices.



Risk of damage to equipment

- Make sure you set the voltage selector to the correct value for your device or devices.
- If you have devices that need different voltages, fit a second voltage selector or use a second ONErack module.
- Do not rotate the voltage selector switch when the ONErack system is powered.
- Record the polarity and voltage for each device's DC power lead with a suitable meter.
- Remove each device's power lead from the mains supply before you cut the cable.
- Cutting power leads should only be done by competent, qualified personnel – if in doubt, consult a qualified electrician.
- Each daisy-chain cable is protected by an 8 A fuse. Do not overload the cables.
- The internal power supply can supply up to 200 W to a single daisy-chain, or up to 250 W across two daisy-chains.
 Do not overload the internal power supply. If the internal power supply is overloaded, it will not start.
- Each module can supply up to 35 W. Do not overload the modules.

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