

# 1RK-PSU ONErack internal power supply

Installation Guide V1.30



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## In the box

1 internal power supply:

With lower tab,



or with upper and lower tabs



2 daisy-chain cables



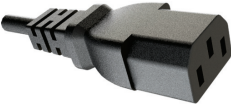
2 guide rails



4 M3 screws (**Note:** if your module has only the lower tab, you only need 2 screws)



1 power lead, AC (appropriate for your region)



1 service cable

1 A3 template



In the unlikely event that a component is missing or damaged, please contact [tech.usa@tvone.com](mailto:tech.usa@tvone.com) or [tech.europe@tvone.com](mailto:tech.europe@tvone.com).

## Tools

Pozidriv® PZ1 crosshead screwdriver

## Fitting the ONErack internal power supply

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

This installation guide assumes you have already built a ONErack chassis.

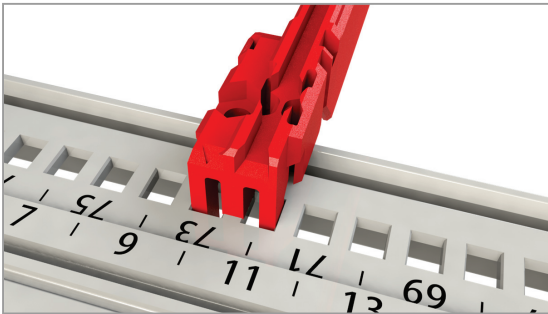
Read more about building a chassis in the installation guide for the ONErack chassis. The guide is available from the Downloads tab at [tvone.com/onerack](http://tvone.com/onerack).

You can place the internal power supply anywhere in your ONErack chassis. If you decide to mount the internal power supply at the right-hand end of the chassis, leave a minimum of 10 numbered holes to the right of the guide rail. This allows space for airflow.

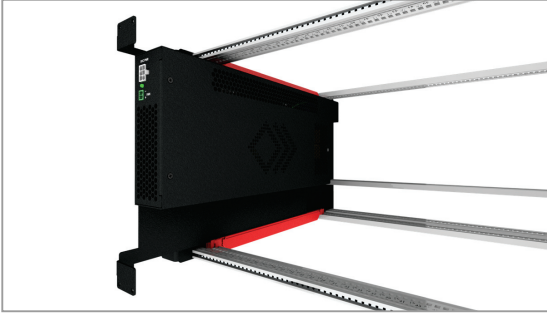
1. Clip the guide rails into the lower and upper mounting rails.

Use the numbers to help you fit the guide rails straight and in line with one another. You can also use the template included in the box.

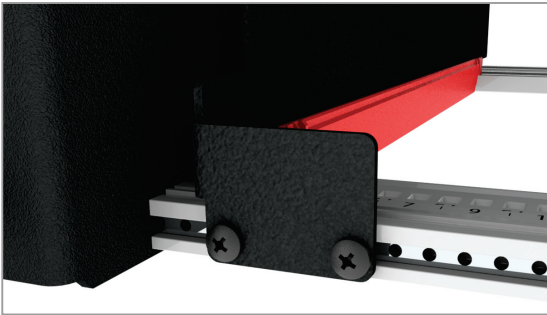
Make sure the groove is on the right when you look from the front of the chassis.



2. Slide the internal power supply into the groove in the guide rails.



3. Screw the internal power supply in place with M3 screws.
4. If you have both upper and lower tabs, use four screws. If you have the lower tab only, use two screws.



5. **OPTIONAL:** Connect one or both daisy-chain cables to the rear of the internal power supply, ready for your modules.

You only need to connect a daisy-chain cable to the upper port if you need to provide 250 W to the lower rail, or if you intend to create an upper rail with extra voltage selectors, sold separately. Ask your sales representative about 1RK-XTRA-RAIL and 1RK-XTRA-PWR.

6. When you have connected all your modules with daisy-chain cables, connect your internal power supply to an electrical outlet.

The green LED on the front of the internal power supply lights up.

Read more about installing modules in the installation guide for ONERack modules. The guide is available from the Downloads tab at [tvone.com/onerack](http://tvone.com/onerack).

# Powering modules outside your ONErack with the service cable



When using the service cable to power a module, do not open the voltage selector or attempt to change the voltage of that module.

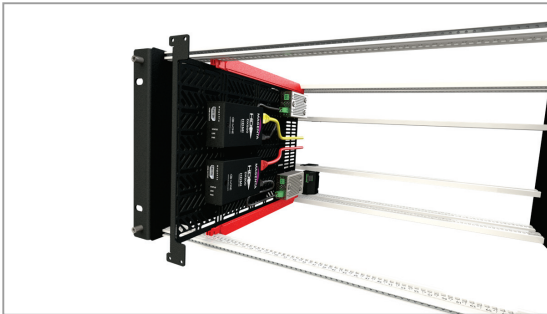


Before you connect the service cable to a module, make sure the connector is up the right way.

To service devices mounted on modules, you remove the module from the ONErack chassis. Removing the module from the chassis disconnects the module from your ONErack power supply.

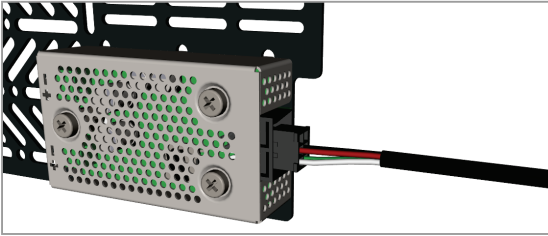
The service cable allows you to remove a module and connect it directly to your ONErack power supply. Your devices are powered, and serviceable.

1. Remove the module from the chassis.

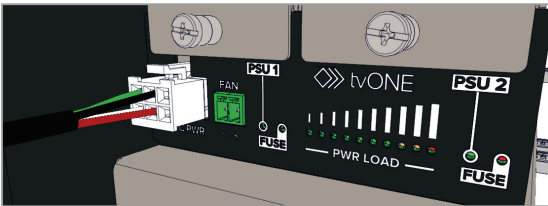
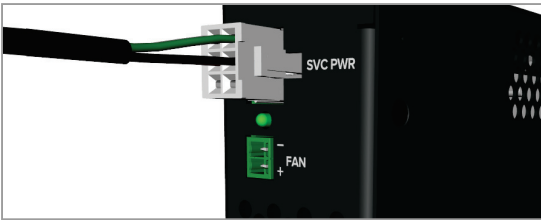




2. Connect the service cable to the voltage selector of the module.



3. Connect the service cable to the internal power supply, or dual-redundant PSU.



# Safety information for the internal power supply and the dual-redundant PSU



## Risk of electrical shock

- Do not open the cover of the internal power supply or dual-redundant PSU.  
There are no user-serviceable parts inside.
- When using the service cable to power a module, do not open the voltage selector or attempt to change the voltage of that module.



## Risk of damage to equipment

- In the internal power supply, 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.
- The dual-redundant PSU can supply up to 350 W to a single daisy-chain, or up to 450 W across two daisy-chains. Do not overload the dual-redundant PSU. If the dual-redundant PSU is overloaded, one or both power units can fail.  
If a single power unit fails, and the dual-redundant PSU is still overloaded, the other can fail soon afterward.
- Do not block the vents of the internal power supply or dual-redundant PSU. If a power supply overheats, it shuts down and will not restart.
- Before you connect the service cable to a module, make sure the connector is up the right way.

## Contact us

 [tvone.com](https://tvone.com)

 [info@tvone.com](mailto:info@tvone.com)

 **Support NCSA:** [tech.usa@tvone.com](mailto:tech.usa@tvone.com)

 **Support EMEA:** [tech.europe@tvone.com](mailto:tech.europe@tvone.com)

 **Support Asia:** [tech.asia@tvone.com](mailto:tech.asia@tvone.com)

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