

## THANK YOU FOR ORDERING ERICA FUSION RINGMODULATOR MODULE!

The Erica Synths Fusion series modules are designed combining vacuum tubes and semiconductors therefore they bring warm, powerful sound and overdrive possibilities of vacuum tubes into your modular system. Erica Fusion series consist of range of modules used in sound shaping circuit – Mixer, real Ringmodulator using audio transformers and germanium diode ring, VCF, VCA and Analogue Delay/Chorus.

The new **Erica Fusion Ringmodulator** is the real ringmodulator – we use germanium diode ring and audio transformers in modulator circuit and vacuum tube for signal boosting and shaping. Germanium diodes enrich the sound by adding extra harmonic content meanwhile vacuum tube adds nice, soft overdrive to audio and carrier signals. As result you get one of most versatile ringmodulators around.

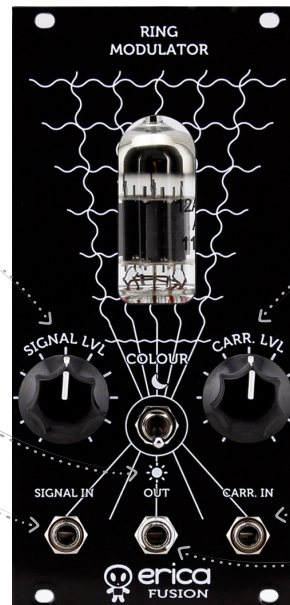
### FEATURES:

- Germanium diode ring
- Audio transformers
- Adjustable tube overdrive on both audio and carrier inputs
- Colour switch to select between brighter and darker sound

Input attenuator adjusts audio signal level. Input accepts signals at virtually any level, because they are fed directly into tube. Adjust signal level in order to get clean, undistorted signal on the output OR use the advantage of interesting tube distortion/overdrive effects.

Use Colour switch to select between more or less higher harmonic saturation.

Connect audio signal here.



Input attenuator adjusts carrier signal level. Input accepts signals at virtually any level, because they are fed directly into tube. Experiment with audio and carrier level settings to achieve desired effect.

Connect another audio signal (Carrier) here.

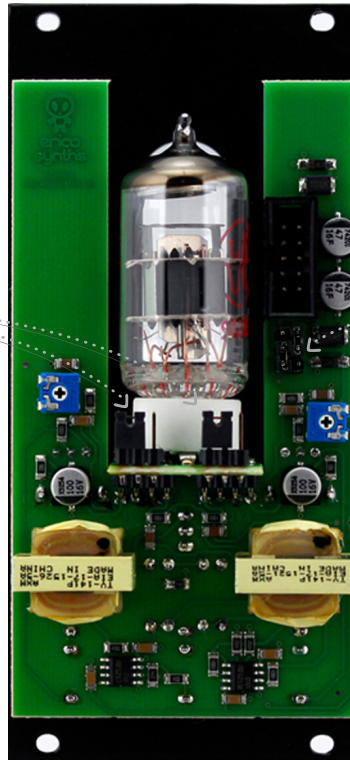
Take the output signal from here.

### SPECS:

Input signal level.....up to 20V ptp  
 Max Output level.....10V ptp  
 Panel width.....12HP  
 Module depth.....25mm  
 Power supply....bipolar +12V , eurorack standard and/or Erica Synths 6VAC PSU  
 Power consumption  
 Tube heater PSU configuration.....12mA@+12V, 8mA@-12V, 300mA@6VAC  
 Eurorack PSU configuration.....160mA@+12V, 8mA@-12V


Major news about the new Fusion modules – they are configurable to work with standard  $\pm 12V$  eurorack PSU. In this case power consumption is about 150mA from +12V, but you do not need to install Fusion PSU. So, before deciding on your Fusion module configuration, please, check total power consumption of your system!

For  $\pm 12V$  operation install 2 jumpers on the Fusion PSU connector on the left side as shown on the picture! For 6VAC operation from the Fusion PSU, install jumpers on the right side. Also, you can refer to small 12V or 6V notes next to jumpers.



For  $\pm 12V$  operation install 2 jumpers on the Fusion PSU connector as shown on the picture. If you use Fusion Mixer with the Erica Fusion PSU, no need to install these jumpers. You connect Fusion PSU ribbon cable here.

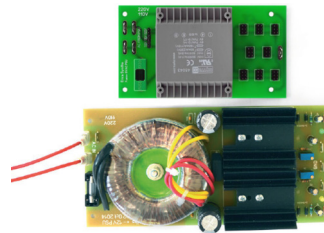
## ERICA FUSION 6VAC PSU INSTALLATION

 It is advised that installation is performed by person, who has experience working with 220/110V voltages. Before installing the PSU, make sure your modular system is turned off and disconnected from wall power socket.

Follow simple instructions below, and you will not go wrong with the installation!

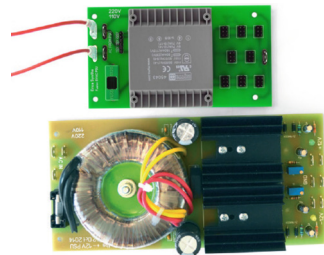


Use spacers and screws supplied with the Erica Fusion PSU kit to fix it in your modular case next to the eurorack power supply unit!

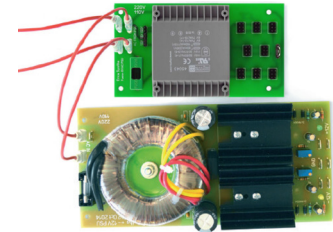


Disconnect 220/110V wires from eurorack PSU!

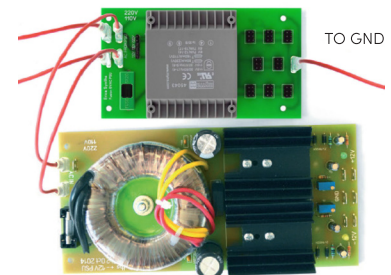
Connect 220/110V wires to relevant lugs of Erica Fusion PSU!



Use wires supplied with the Erica Fusion PSU kit to connect eurorack PSU to relevant lugs on the Fusion PSU module!



One side of Erica Fusion PSU 6VAC output has to be connected to the GND of your modular system. Use the wire supplied with the kit to do so. Since 6VAC circuit is isolated, nothing wrong or critical will happen, if you connect this wire somewhere incorrectly. But that may affect quality of sound of Erica Fusion modules.



Congratulations, you have completed installation of Erica Fusion 6VAC PSU! Now you can try modules!

## SAFETY INSTRUCTIONS

Please follow the instructions for use of this Erica Synths module below, 'cause only this will guarantee proper operation of the module and ensure warranty from Erica Synths.

Water is lethal for most of the electric devices, unless they are made waterproof. Erica Synths module is NOT intended for use in a humid or wet environment. No liquids or other conducting substances must get into the module. Should this happen, the module should be disconnected from mains power immediately, dried, examined and cleaned by a qualified technician.



Do not expose the module to temperatures above +50° C or below -20° C.



Transport the instrument with modules installed carefully, never let it drop or fall over. Warranty does not apply to modules with visual damages.



The module has to be shipped in the original packaging only. Any module shipped to us for return, exchange and/or warranty repair has to be in its original packaging. All other deliveries will be rejected and returned to you. Make sure you keep the original packaging and technical documentation.



You will find Erica Synths terms of warranty at [www.ericasynthslv](http://www.ericasynthslv).

Items for return, exchange and/or warranty repair have to be sent to: Erica Synths, Andrejostas Str.12, Riga, Latvia, LV-1045

## DISPOSAL

This device complies to the EU guidelines and is manufactured RoHS conforming without use of led, mercury, cadmium and chrome. Nevertheless, this device is special waste and disposal in household waste is not recommended.

Designed and made in Latvia.

User manual by Girts Ozolins@Erica Synths.

Design by Ieva Andrupe.

Copying, distribution or any commercial use in any way is prohibited and needs the written permission by Erica Synths.

Specifications are subject to change without notice.

In case of any questions feel free to contact us via e-mail [info@ericasynthslv](mailto:info@ericasynthslv)

Check out other Erica Synths modules & devices at [www.ericasynthslv](http://www.ericasynthslv)