

BLACK RING-XFADE

THANK YOU FOR PURCHASING ERICA SYNTHS BLACK SERIES MODULE!

Erica Black Series include high-end, unique functionality and superior quality modules. Only the best, highest quality components are used, all inputs and outputs are protected against undesired overvoltage. When designing Black Series, put design and usability superior. Big knobs are assigned to functions that make difference in sound. Erica Black series consist of range of modules that are needed to put together entire synth. Enjoy!

The **Erica SynthS Black Ring-Xfade** is an extremely versatile module for sound shaping. It consists of two unconventional ringmodulators/waveshapers, a crossfader that works both for audio and CV and a VCA. Unlike conventional ringmodulator that works only with a signal present on both signal and carrier inputs, the Black Ring-Xfade passes through the signal without alteration, if no carrier is present, but low level signals on the carrier input result in unique waveshaping. Add the crossfader between two ringmodulators (or as a separate unit) topped up with the VCA, and you have an amplitude modulation powerplant in 10HP!

FEATURES:

- Dual ringmodulatr/waveshaper
- Carrier level adjustment
- Voltage controlled crossfader
- Manual and CV control over crossfade
- Selectable AC (audio) or DC (control voltage) coupling
- VCA with selectable bias

SPECS:

Audio level	10Vptp
CV level (full span)	-5V - +5V
Power consumption	+38mA, -32mA
Module width	10HP
Module depth	35mm

SAFETY INSTRUCTIONS

Please follow the instructions for use of the 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. This 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. If you have transported module in extreme low temperatures, leave it in room temperature for an hour before plugging it in.



Transport the instrument 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.



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

User manual by Girts Ozolins@Erica SynthS.

Design by Ineta Briede@Black8.

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 through www.ericasynthS.lv.

You will find Erica SynthS terms of warranty at

www.ericasynthS.lv

Items for return, exchange and/or warranty repair have to be registered at SUPPORT on www.ericasynthS.lv and send back to us according to instructions in the support page.

RING1 CV; RING2 CV

These are the ringmodulator carrier (CV level) level controls. Unlike conventional ringmodulator, this one passes signal unaltered, if RING CV is turned down. With increasing Ring CV level a slight waveshaping turns into proper ringmodulation.

XFADE

This is a manual Crossfade control. This fades smoothly between signals patched into XFADE IN1 and XFADE IN2. The XFADE CV is added to the knob position.

COUPLING

Set the Crossfader mode – AC is optimized for use with the audio signals, DC – for control voltages (but it will work fine with audio, as well).

RING1 IN; RING1 CV

These are the first Ringmodulator signal and carrier inputs respectively.

XFADE IN1; XFADE IN2

These are the Crossfader inputs. They are normalised to the Ringmodulator outputs, so, if nothing is patched here, you can crossfade between two ringmodulated signals.

XFADE CV

This is the Crossfader CV input. The CV is added to the XFADE knob setting.

RING1 OUT; RING2 OUT

These are the ringmodulator outputs.

XFADE CV LVL

This is a crossfade CV level attenuator. By adjusting it you can control a span of fading between inputs.

VOL CV

Select the VCA CV response. A 0-10V setting is intended for use with the envelope generator, a -5V - +5V setting – for nice tremolos with a LFO.

RING 1; RING 2

The green LEDs give visual feedback on signal levels, applied to XFADE IN1 and XFADE IN2 respectively.

FADE L; FADE R

The red LEDs indicate the crossfader position.

RING2 IN; RING2 CV

These are the second Ringmodulator signal and carrier inputs respectively. These two are normalised to the RING1 inputs, and if no signal is patched here, the duplicate the first Ringmodulator. Interesting trick is to set RING CVs at different levels and crossfade between two ringmodulator signals.

VOL CV

This is the VCA CV input. The VCA is post-crossfade – it controls the amplitude of a resulting signal after the crossfader. It will also work with low frequency control voltages applied to the XFADE Ins – nice for designing unconventional modulations.

XFADE OUT

This is the Crossfader output and the main output of the module.

