**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. Erica Black series consist of range of modules that are needed to put together entire synth. Enjoy!

**Erica Black Voltage Controlled Envelope Generator** brings you ultimate control over envelopes in your modular synth. It's looping lin/log ADSR envelope generator with CV control over each stage. Together with the VC EG Expander you get really advanced modulation source.

**FEATURES:**
Retriggerable ADSR envelope generator
CV control over each stage
CV level attenuators
Looping function
Lin/log envelope selection shape
Skiff-friendly design

**TECHNICAL SPECIFICATIONS:**
Envelope level ............................... 0 – 10V
Attack time.............................................12"
Decay time ...........................................12"
Release time..........................................12"
CV level (full sweep) ................. –5V – +5V
Panel width.......................................10HP
Module depth ...............................30mm
Power consumption ...................................
.......................... 30mA@+12V, 15mA@–12V
Power consumption w. Expander ...........
......................... 40mA@+12V, 20mA@–12V

Set attack time of the envelope. The potentiometer has exponential curve, so first half of turn will alter attack time form 0 to 1"
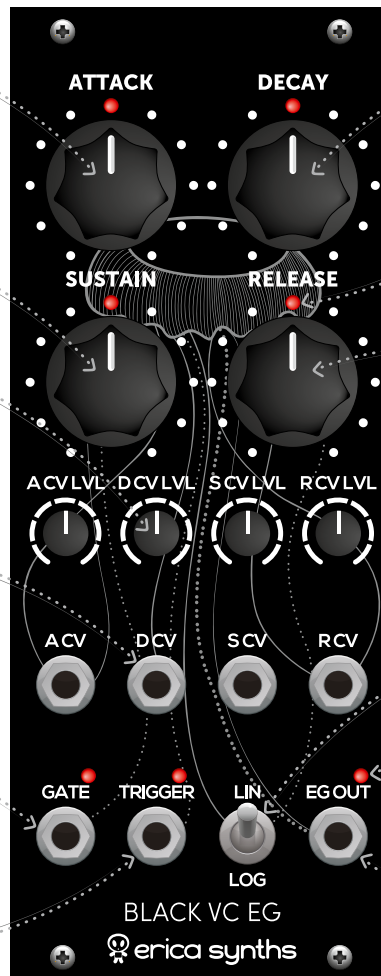
Set sustain level of the envelope

These are CV attenuators for each envelope stage

These are CV inputs to alter time/level for each stage of the envelope. Unlike regular CV control over ADSR parameters, Black VC EG samples CV at the beginning of each stage and sets duration/level of the stage according to momentary CV value

Patch gate signal here to start the envelope. If nothing is patched in this jack, the envelope generator automatically advances in looping mode, where loop is defined by A and D times.

You can retrigger the envelope at any stage by applying trigger signal here. Also trigger initiates AD envelope instead of ADSR.

Set decay time of the envelope

Small LEDs give visual feedback on active stage

Set release time of the envelope

Switch between linear or logarithmic envelope shapes

Small LEDs give visual feedback on input/output status

This is envelope output



ATTACK    DECAY

SUSTAIN    RELEASE

A CV LVL  D CV LVL  S CV LVL  R CV LVL

A CV    D CV    S CV    R CV

GATE    TRIGGER    LIN    EG OUT
                    LOG
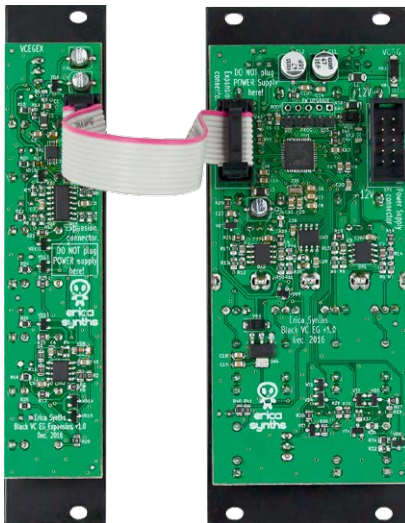
BLACK VC EG
**erica synths**

**erica synths**

**Erica Black VC EG Expander** takes the VC EG to the next level – it outputs gates or CVs for each active stage of the envelope, so you can design really advanced patches. Also, inverted and bipolar envelope outputs are available.

**NB!** This is expander module that can be connected only to the Black VC EG. It will not work as standalone eurorack module.
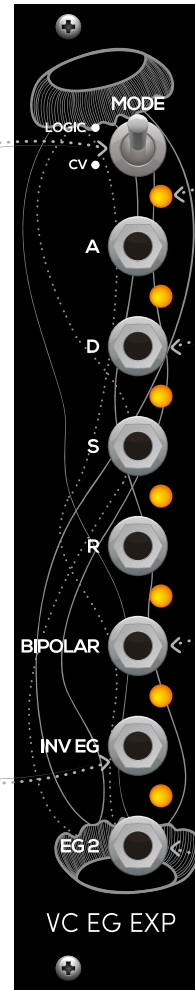
### FEATURES:

4 simultaneous logic or CV outputs for each envelope stage
Bipolar envelope output (–5V – +5V)
Inverted envelope output
Duplicated envelope output
5HP panel width

Use ribbon cable supplied with the module to connect it to the Black VC EG!

Select Logic or CV output for each envelope stage! Logic output means, the module outputs +5V gate signal when the relevant stage is active.
In CV mode the module outputs CV that follows voltage change on the relevant stage of the envelope. For example, on A output CV will be something like sawtooth bursts from 0 to 10V every time attack stage is present

LEDs give visual feedback on each stage status

These are stage Gate or CV outputs for each stage

This is bipolar envelope output – the envelope is biased to –5V to +5V range

This is inverted envelope output

This output copies output on the envelope generator

MODE
LOGIC
CV
A
D
S
R
BIPOLAR
INV EG
EG 2

VC EG EXP

## 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 http://ericasynths.lv/en/terms/

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 Baiba Stelle.
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Specifications are subject to change without notice.
In case of any questions feel free to contact us via e-mail **info@ericasynths.lv**

Check out other Erica Synths modules & devices at **www.ericasynths.lv**