



erica synths

pico

LOGIC

**THANK YOU FOR PURCHASING ERICA SYNTHS PICO SERIES MODULE!**

WITH PICO SERIES WE CHALLENGED OURSELVES – CAN WE MAKE ANY SUPERIOR FUNCTIONALITY SYNTH MODULE 3HP WIDE AND AFFORDABLE?

**ERICA PICO LOGIC** IS BOOLEAN LOGIC AND CLOCK DIVIDER MODULE THAT ALLOWS TO MANAGE SEVERAL GATE SIGNALS IN ADVANCED WAYS. AS PER PICO DESIGN CONCEPT, WE MANAGED TO SQUEEZE 2X7 LOGIC ALGORITHMS AND 8 CLOCK DIVISIONS IN JUST 3HP MODULE! ALSO THE MODULE MAY BE USED AS ARP-LIKE RINGMODULATOR AND SUBOSCILATOR FOR AUDIO SIGNALS.

## FEATURES

- 2 INDEPENDENT SECTIONS OF 2XIN AND OUT
- 7 LOGIC ALGORITHMS IN EACH SECTION
- 8 CLOCK DIVISIONS IN EACH SECTION
- INTERNAL CONNECTION OF INPUTS OF BOTH SECTIONS
- MODE INDICATION VIA RGB LEDES
- OUTPUT SIGNAL STATUS LEDES
- AUTOMATIC ALGORITHM SURF

## TECHNICAL SPECS

MAX INPUT SIGNAL LEVEL	10V
MIN INPUT SIGNAL LEVEL	2.5V
OUTPUT SIGNAL LEVEL	0 OR 5V
POWER CONSUMPTION	+22MA, -0MA
MODULE WIDTH	3HP
MODULE DEPTH	35MM

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## LOGIC

THIS LED INDICATES THE SELECTED LOGIC ALGORITHM OR THE CLOCK DIVISION OF THE FIRST SECTION. REFER TO THE TABLE BELOW FOR THE LIST OF THE ALGORITHMS AND CLOCK DIVISIONS

THIS IS THE INPUT 1 OF THE FIRST SECTION. APPLY LOGIC LEVEL SIGNALS (GATES, TRIGGERS, ETC.) HERE!

THIS IS THE INPUT 2 OF THE FIRST SECTION. APPLY LOGIC LEVEL SIGNALS (GATES, TRIGGERS, ETC.) HERE! IN CLOCK DIVIDER MODES IN2 WILL WORK AS RESET INPUT

THIS LED INDICATES THE SELECTED LOGIC ALGORITHM OR THE CLOCK DIVISION OF THE SECOND SECTION

THIS IS THE INPUT 1 OF THE SECOND SECTION. IT'S NORMALLED TO THE INPUT1 OF THE FIRST SECTION, AND, IF NOTHING IS PLUGGED IN HERE, IT COPIES IN1A

THIS IS THE OUTPUT OF THE SECOND SECTION

### LOGIC



IN1A



IN1B



OUT1



IN2A



IN2B



OUT2



PUSH THIS BUTTON PROMPTLY TO SELECT ONE OF 7 LOGIC ALGORITHMS OF THE FIRST SECTION
















IN ORDER TO ACTIVATE CLOCK DIVISIONS IN A FIRST SECTION PUSH AND HOLD A BUTTON FOR 2". THEN YOU CAN CIRCLE THRU DIVISIONS BY PUSHING A BUTTON PROMPTLY. YOU MAY WISH TO USE TOP SECTION OF A LOGIC FOR LOGIC FUNCTIONS AND BOTTOM SECTION FOR LOGIC DIVISIONS

THIS IS THE OUTPUT OF THE FIRST SECTION

PUSH THIS BUTTON PROMPTLY TO SELECT ONE OF 11 LOGIC ALGORITHMS OF THE SECOND SECTION.

IN ORDER TO ACTIVATE CLOCK DIVISIONS IN A SECOND SECTION PUSH AND HOLD A BUTTON FOR 2". THEN YOU CAN CIRCLE THRU DIVISIONS BY PUSHING A BUTTON PROMPTLY

THIS IS THE INPUT 2 OF THE SECOND SECTION. IT'S NORMALLED TO THE INPUT2 OF THE FIRST SECTION, AND, IF NOTHING IS PLUGGED IN HERE, IT COPIES IN1B, SO YOU HAVE A CHANCE TO RUN TWO ALGORITHMS ON THE SAME SIGNALS SIMULTANEOUSLY. IN CLOCK DIVIDER MODES IN2 WORKS AS RESET INPUT

LOGIC ALGORITHMS		CLOCK DIVISIONS	
	<b>SET-RESET</b> IN1 STAYS HIGH ON THE OUTPUT AND IT STAYS HIGH TILL RESET SIGNAL APPEARS ON THE IN2		<b>DIV2</b> SIGNAL, THAT IS APPLIED ON IN1, APPEARS DIVIDED BY 2 ON THE OUTPUT. CLOCK OR TRIGGER APPLIED TO IN2 WILL RESET CLOCK DIVISIONS TO THE FIRST STEP
	<b>OR</b>		<b>DIV4</b> SIGNALS THAT IS APPLIED ON IN1 APPEARS DIVIDED BY 4 ON THE OUTPUT. CLOCK OR TRIGGER APPLIED TO IN2 WILL RESET CLOCK DIVISIONS TO THE FIRST STEP
	<b>AND</b>		<b>DIV8</b> SIGNALS THAT IS APPLIED ON IN1 APPEAR DIVIDED BY 8 ON THE OUTPUT. CLOCK OR TRIGGER APPLIED TO IN2 WILL RESET CLOCK DIVISIONS TO THE FIRST STEP. IF NOTHING IS PATCHED INTO IN1B, YOU GET CLOCK DIVIDER, WHERE CLOCK APPLIED TO IN1A CAN BE DIVIDED BY 2 ON THE OUT1 AND DIVIDED BY 2 OR 4 ON OUT2
	<b>XOR</b>		<b>DIV16</b> SIGNALS THAT IS APPLIED ON IN1 APPEARS DIVIDED BY 16 ON THE OUTPUT. CLOCK OR TRIGGER APPLIED TO IN2 WILL RESET CLOCK DIVISIONS TO THE FIRST STEP
	<b>NOR</b>		<b>DIV 32</b>
	<b>NAND</b>		<b>DIV 64</b>
	<b>NXOR</b>		<b>DIV 128</b>
			<b>DIV 256</b>

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.

## SAFETY INSTRUCTIONS



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 LED, MERCURY, CADMIUM AND CHROME. NEVERTHELESS, THIS DEVICE IS SPECIAL WASTE AND DISPOSAL IN HOUSEHOLD WASTE IS NOT RECOMMENDED.



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YOU WILL FIND ERICA SYNTHS TERMS OF WARRANTY AT [WWW.ERICASYNTHS.LV](http://WWW.ERICASYNTHS.LV).  
ITEMS FOR RETURN, EXCHANGE AND/OR WARRANTY REPAIR HAVE TO BE SENT TO:

ERICA SYNTHS  
ANDREJOSTAS STR. 12  
RIGA  
LATVIA  
LV-1045

USER MANUAL BY GIRTS OZOLINS@ERICA SYNTHS  
DESIGN BY INETA BRIEDE@CARRE BRANDING

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