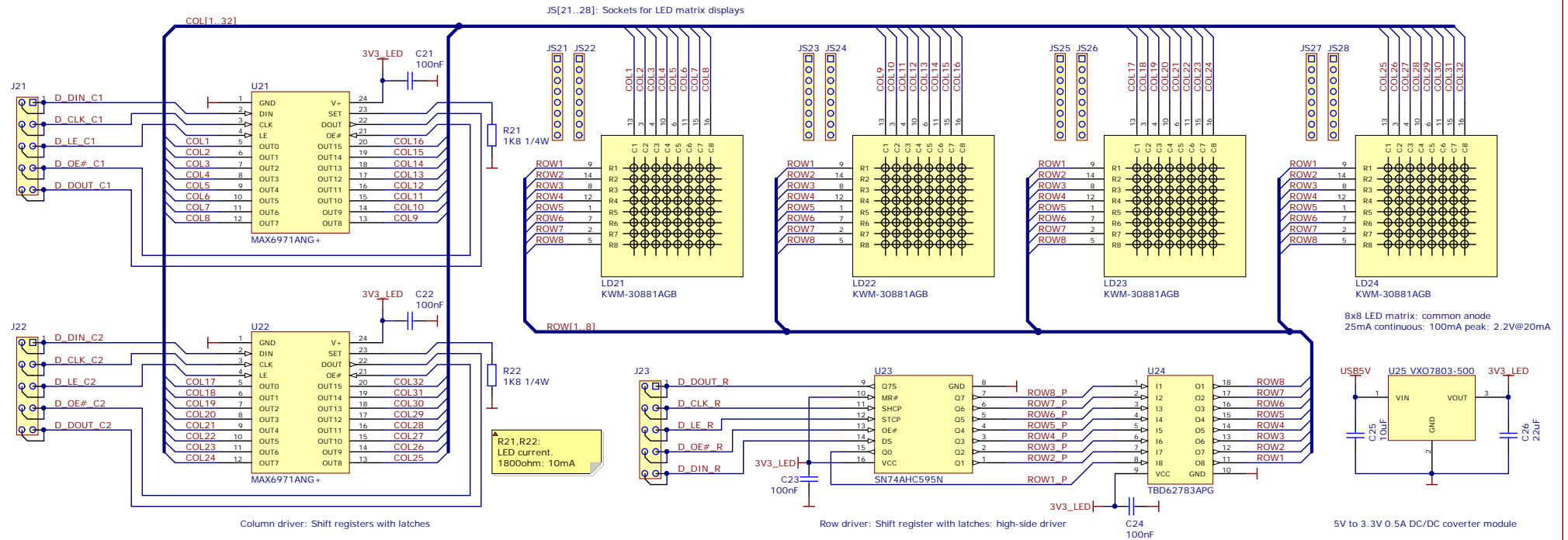
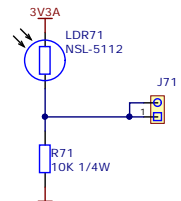


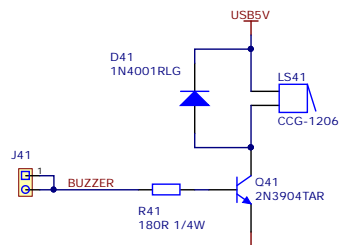
TASK 2: LED matrix display. TH.



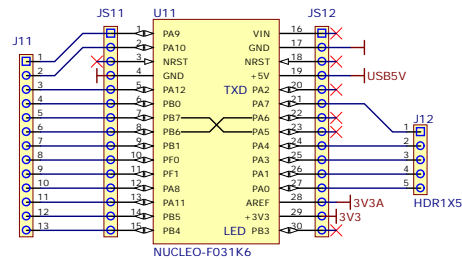
TASK 7: Ambient light illumination sensor. TH.



TASK 4: Buzzer. TH.

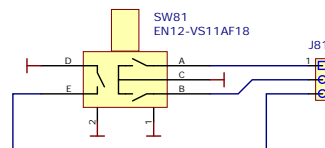


TASK 1: Microcontroller module. TH.

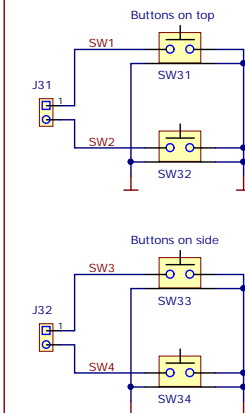


Internal connections on NUCLEO32 module:
PB3: LED
PA5, 6: Internally connected to PB7, 6
PF0, 1: LSE crystal on STM32L modules
PA2, 15: To USB-serial
PA13, 14: To SWD debug interface

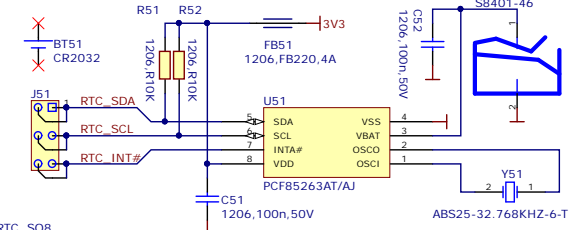
TASK 8: Rotary encoder. TH.



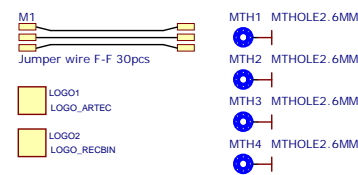
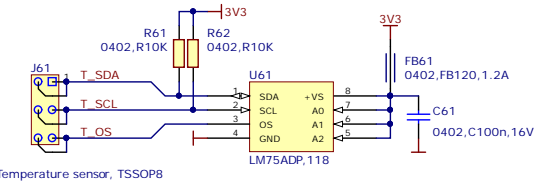
TASK 3: Buttons. TH.



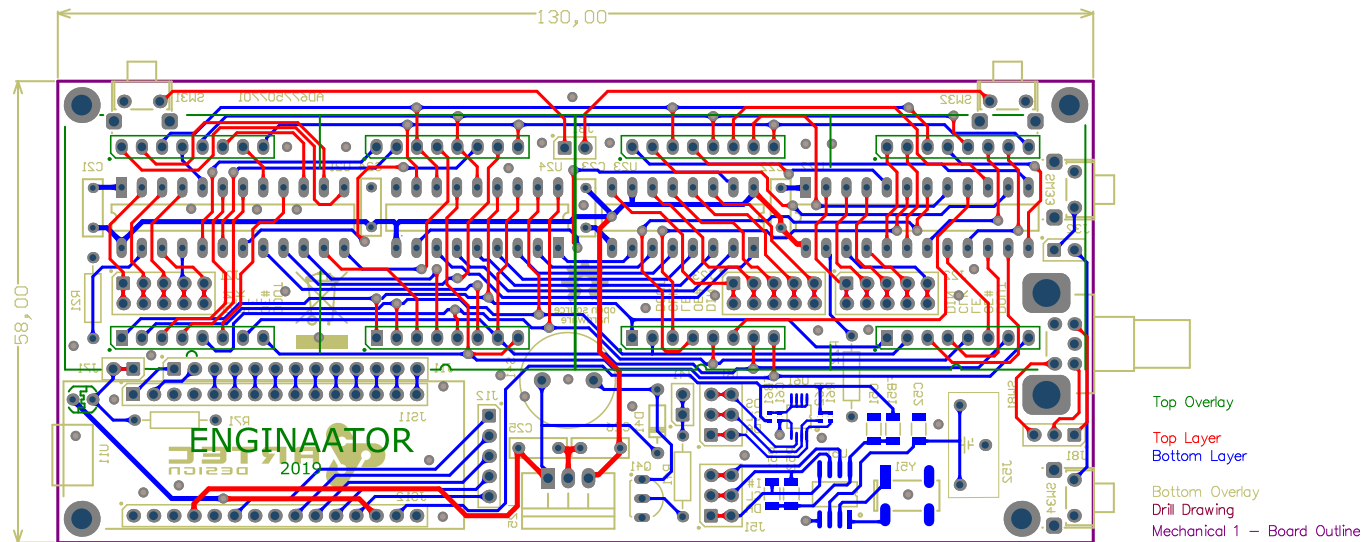
TASK 5: Real time clock. SMD 1206.



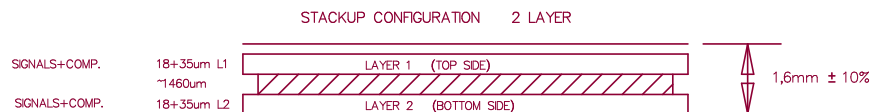
TASK 6: Temperature sensor. SMD 0402.



	Artec Design Akadeemia tee 21/1 Tallinn, 12618, Estonia		
Project Manager:	Markus Kasak		
Engineered By:	Anti Sullin		
Checking By:			
Size:	Schematic nr:	Sheet file name:	Rev:
A3	907507701	engineator.SchDoc	
Last Saved Date:		04.04.2019	Sheet 1 of 1




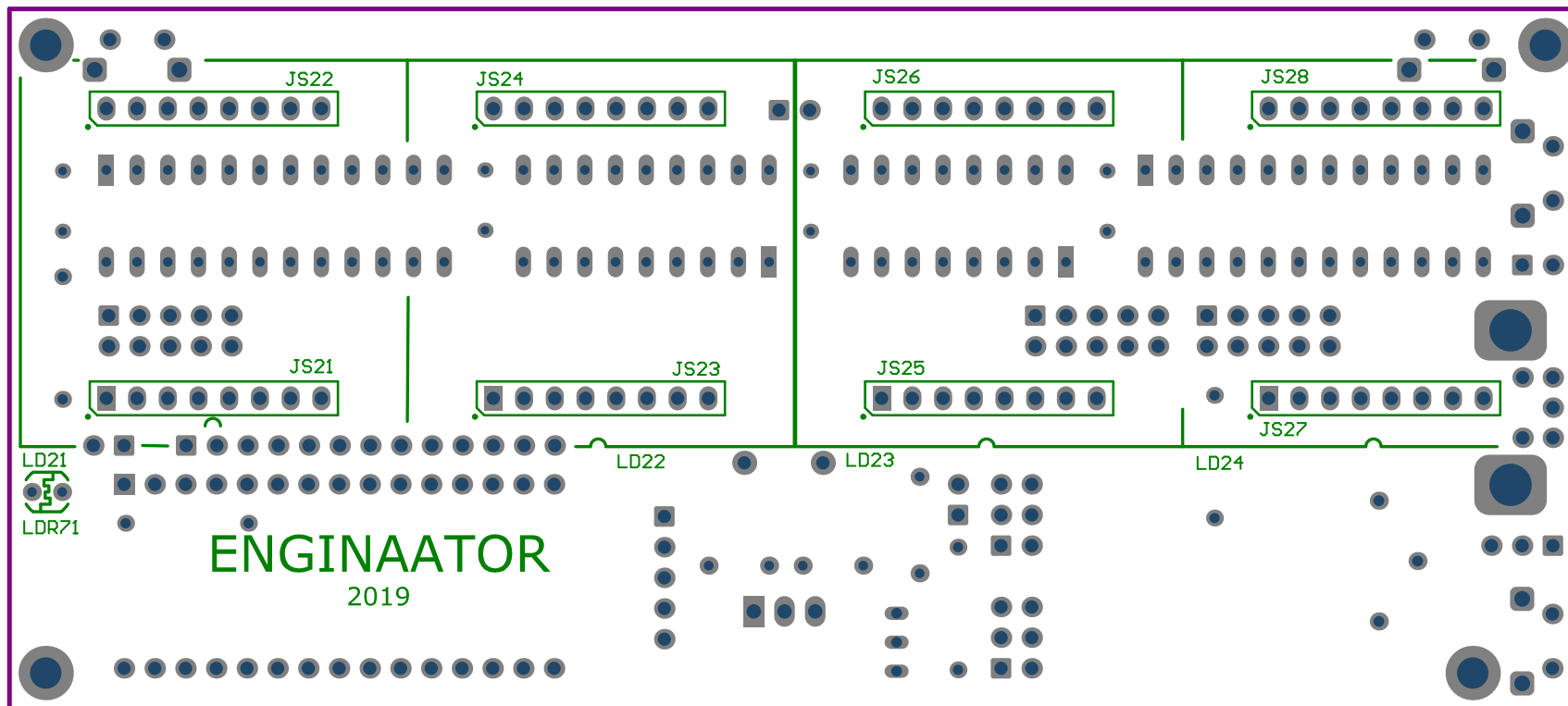
DRILLING DETAILS :



NOTES : (UNLESS SPECIFIED OTHERWISE.)

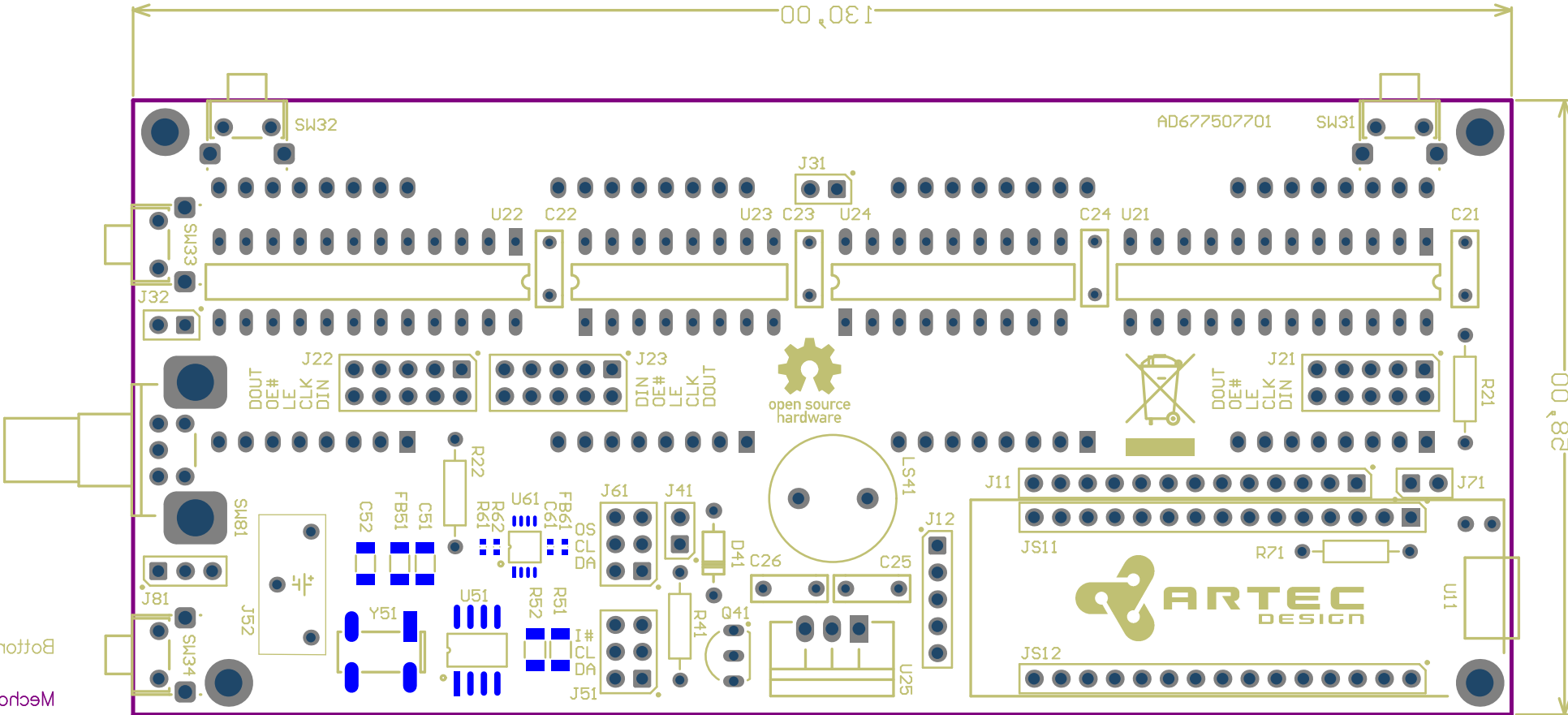
- 1) MATERIAL : FR-4-2 NATURAL EPOXY/FIBERGLASS
53UM COPPER ON ALL LAYERS.
2 SIDES PLATED.
FINISHED THICKNESS: 1,6mm ±10%
- 2) APPLY SOLDERMASK ON BOTH SIDES
COLOR : GREEN
FABRICATOR SHALL MAKE NECESSARY
MODIFICATIONS TO SOLDERMASK PHOTO PLOT FILES
FOR OPTIMAL SOLDERMASK COVERAGE BETWEEN
FINE PITCH COMPONENT LEADS.
- 3) FINISH ALL EXPOSED COPPER SURFACES WITH
IMMERSION GOLD.
- 4) HOLE SIZES APPLY AFTER PLATING.
- 5) APPLY SILKSCREEN ON BOTH SIDES
COLOR : WHITE
FABRICATOR SHALL MAKE NECESSARY
MODIFICATIONS TO LEGEND PHOTO PLOT FILES
TO ENSURE NO LEGEND INK COVERS ANY
COMPONENT PAD OR VIA PAD.
- 6) MODIFIED PHOTO PLOT FILES ARE TO BE RETURNED
BEFORE ORDER DELIVERED.
- 7) ALL PRINTED CIRCUIT BOARD NETS SHALL BE
ELECTRICALLY TESTED FOR OPENS AND SHORTS.
- 8) FABRICATION OF PCB TO COMPLY
WITH IPC-A-600 CLASS II , CURRENT REVISION.

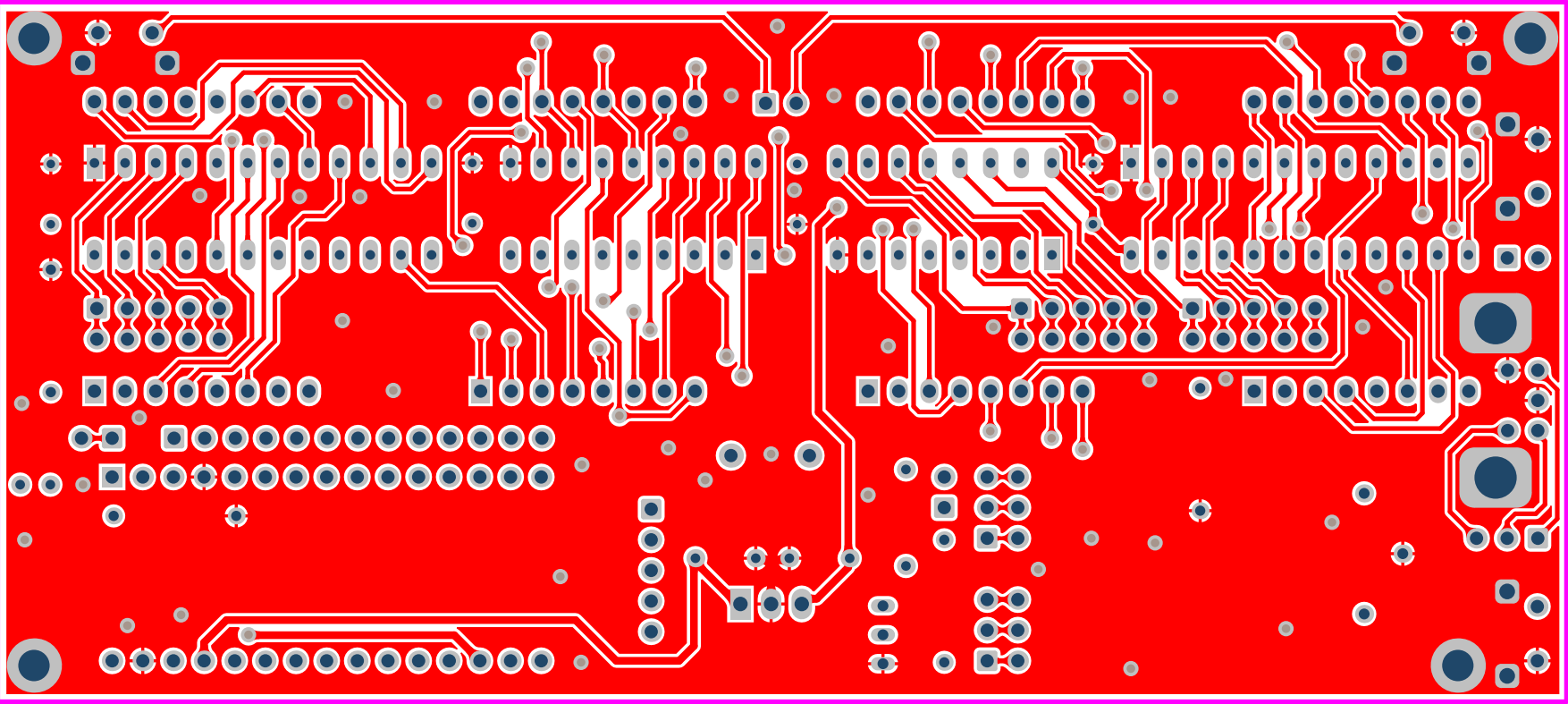
APPROVALS	DATE	 Akadeemia tee 21/1, 3rd floor Tallinn 12618, Estonia, EU Tel: (+372) 671-8550			
DESIGNER: Anti Sullin	04.04.2019				
CHECKER:	04.04.2019				
PRJ MGR: Markus Kasak	04.04.2019				
CLIENT:		SIZE A4	Enginaator 2019 FABRICATION		
DRAWING NUMBER 857507701		SCALE 1 : 1	SHEET 1 OF 1	VERSION 01	



Top Overlay

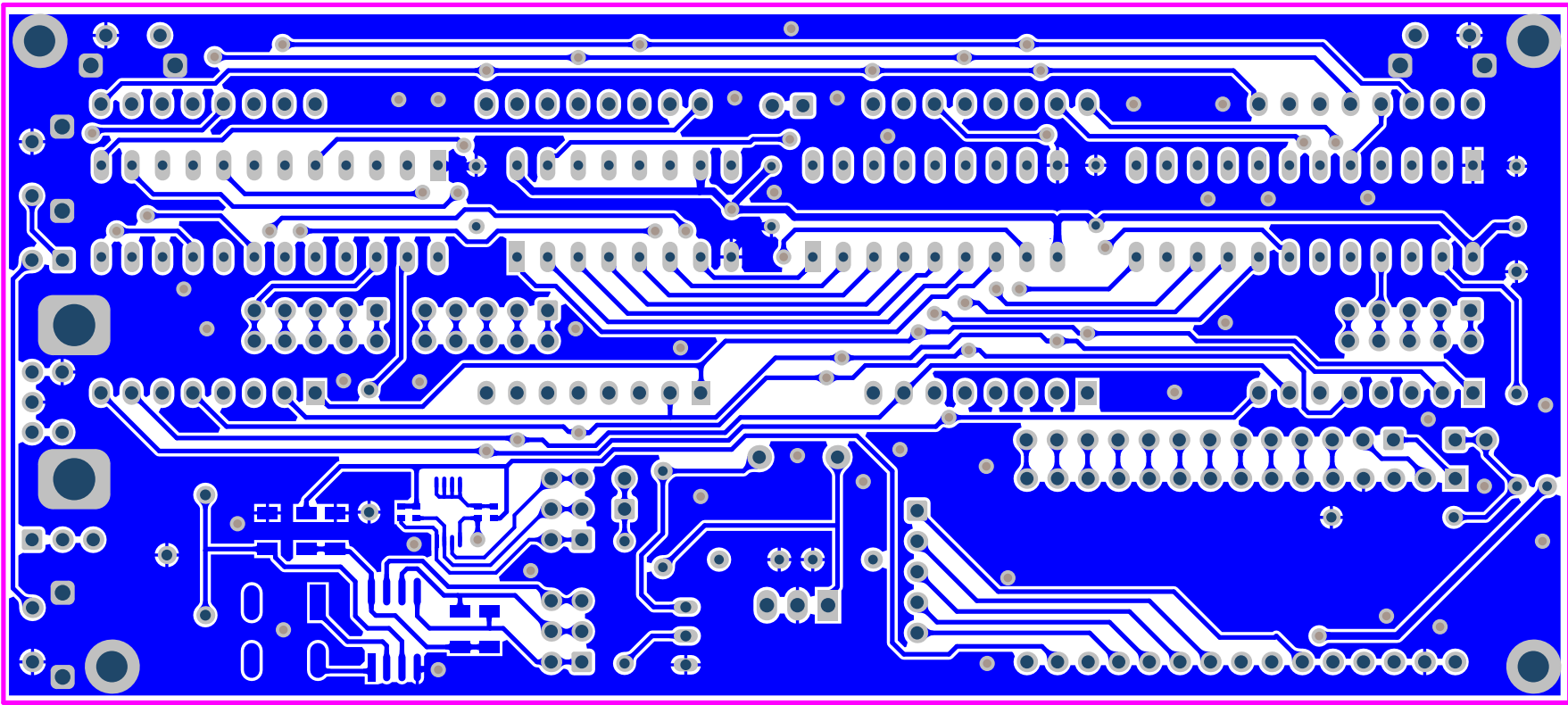
Mechanical 1 – Board Outline





Top Layer

Mechanical 1 – Board Outline



Bottom Layer

Mechanical 1 – Board Outline