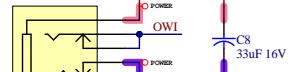


# Fri3D Time Blaster

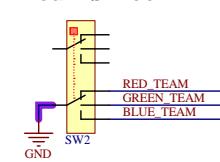
## CR2032 Battery

## Programming

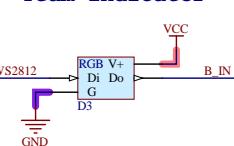
## Badge Link



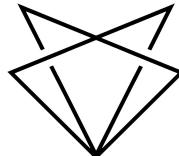
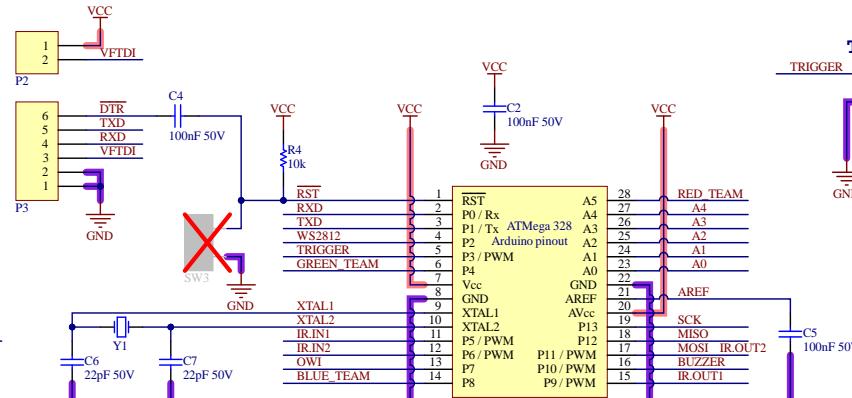
## Team switch



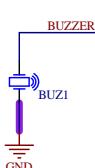
## Team Indicator



## UART - FTDI pinout



## Buzzer

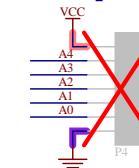


Rev. 00 : Initial release

Rev. 01 : USB Fixed + increased solderability

Rev. 02 : Silkscreen changes

## Extra pins



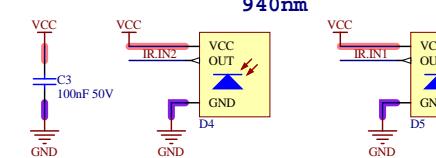
$V_f = 1.2V @ 20mA$   
 $V_f = 1.4V @ 100mA$   
 $V_f = 2.6V @ 1000mA$   
 For 100mA and more a max pulse width of 100us with duty cycle less than 1%

No resistor required is  $VCC \leq 3.3V$ , the  $V_f$  rises above 4V if the current increases.

## IR Transmitters

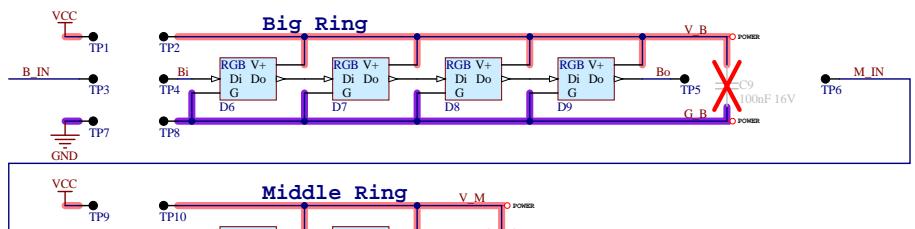


## IR Receivers 940nm



## SMD AREA

### Light Effect



### Big Ring

### Middle Ring

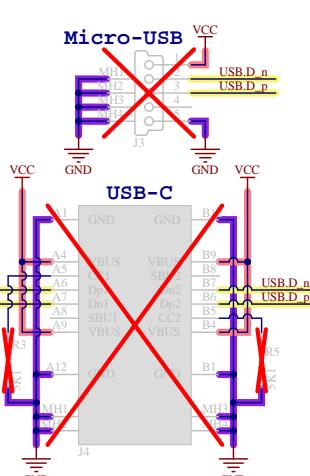
### Small Ring

## Micro-USB

## USB-C

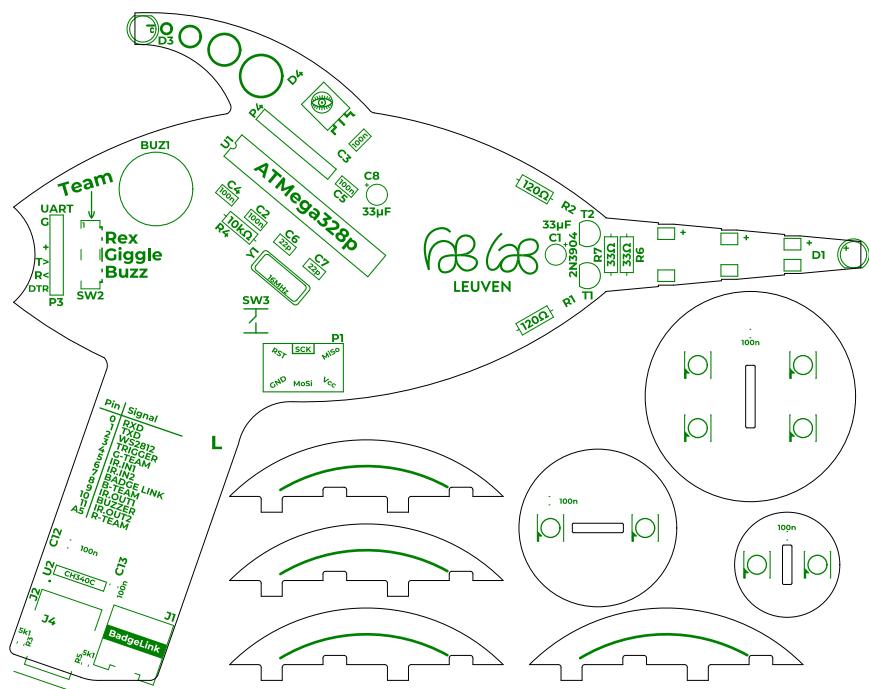
## USB-B

## USB-UART Interface

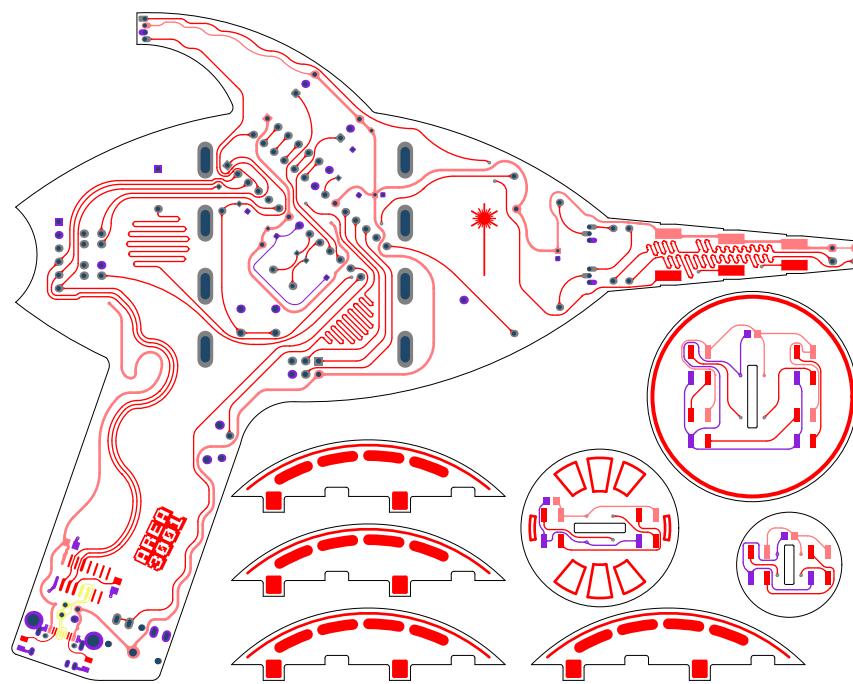


Variant Name = Default

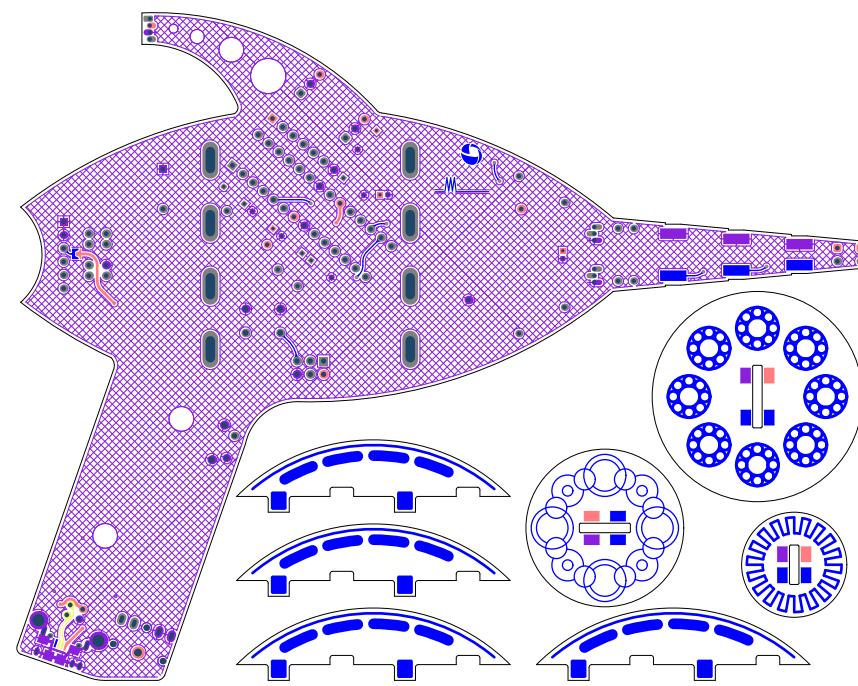
Phyx	Title	Date	Size
	Time Blaster	02/01/2022	A3
Revision 02	Draaw By Wim Van Gool		Sheet 1 of 1



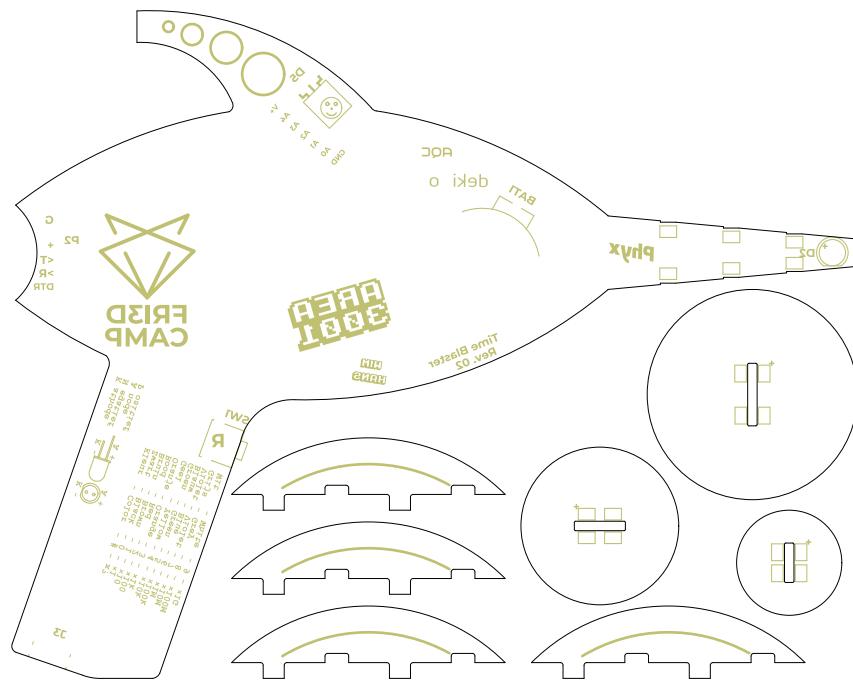
<b>Phyx</b>	Document
Time Blaster	Layer Name
Top Overlay	
Date 11/01/2022	Rev 02
Designer WimUG	Document Fri3d_2020_Time_Blaste_02.PcbDoc



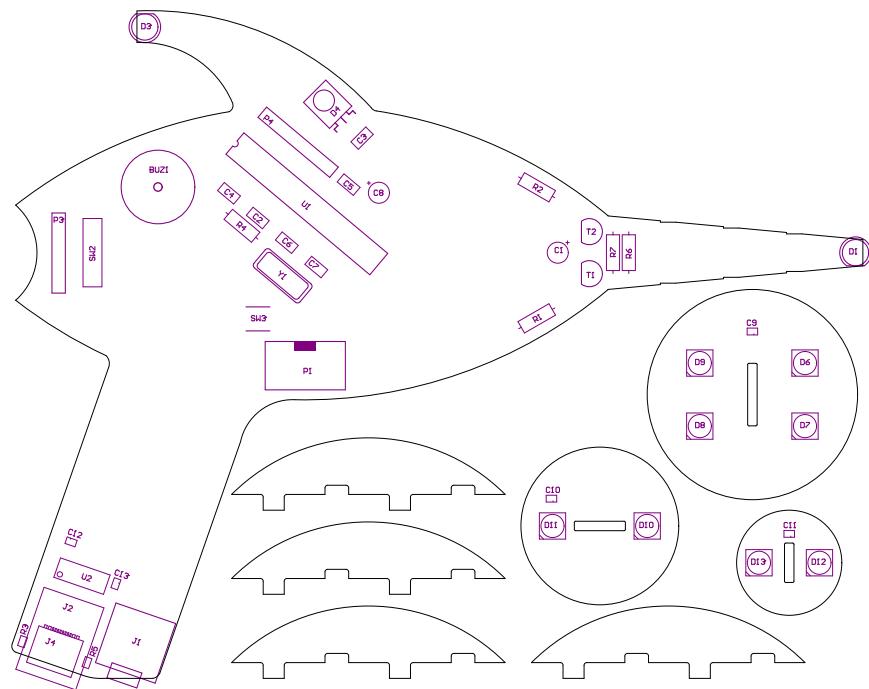
<b>Phyx</b>	Document <b>Time Blaster</b>
	Layer Name <b>Top Layer</b>
	Date 11/01/2022
	Rev 02
Designer <b>WimUG</b>	Document Fri3d_2020_Time_Blaste...02.PcbDoc



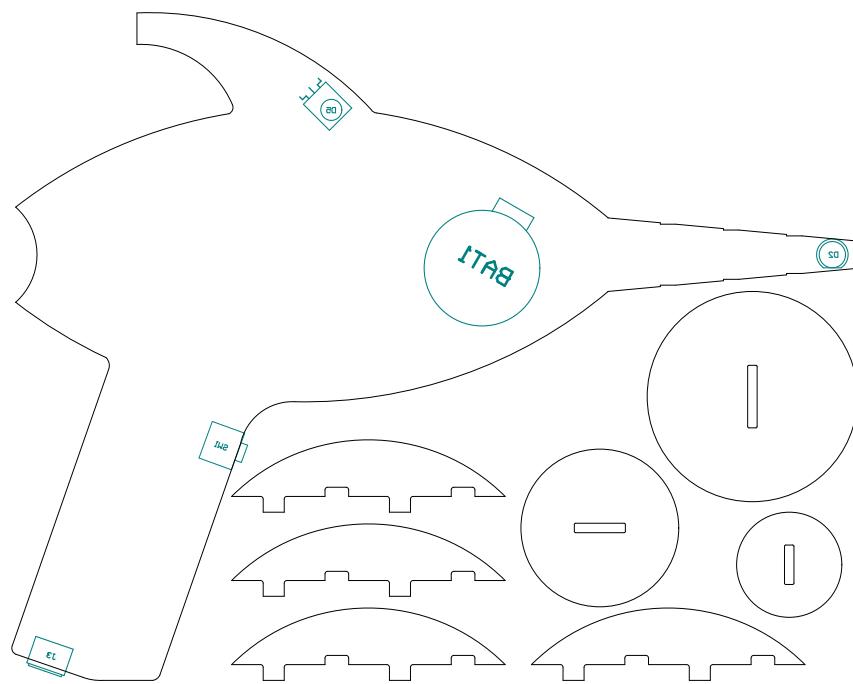
<b>Phyx</b>	Document <b>Time Blaster</b>
Layer Name	<b>Bottom Layer</b>
Date	11/01/2022
Rev	02
Designer	WimUG
Document	Fri3d_2020_Time_Blaste_02.PcbDoc



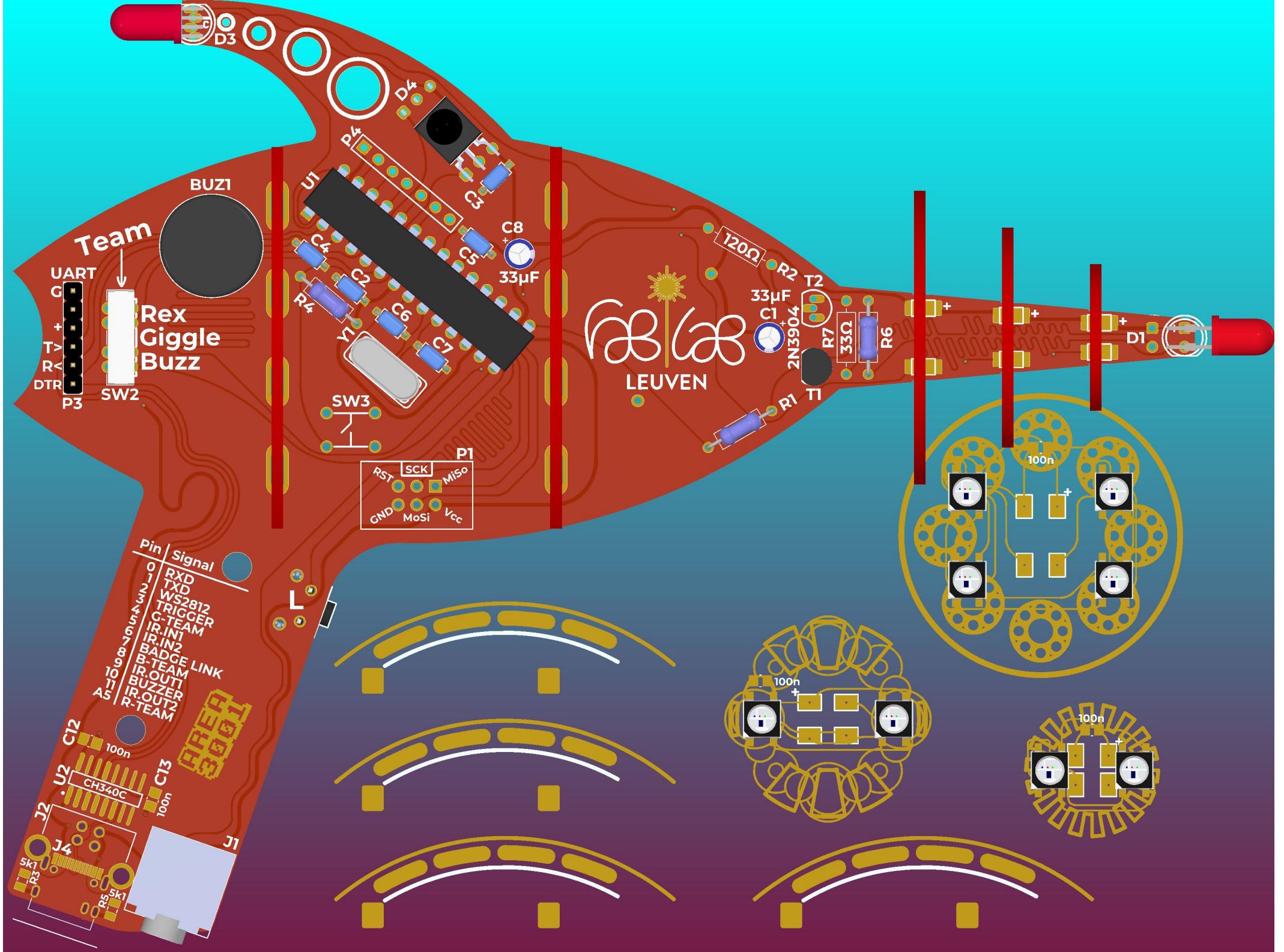
<b>Phyx</b>	Document	Time Blaster
	Layer Name	Bottom Overlay
	Date	Rev
	11/01/2022	02
Designer WimUG	Document	
	Fri3d_2020_Time_Blaste	_02.PcbDoc

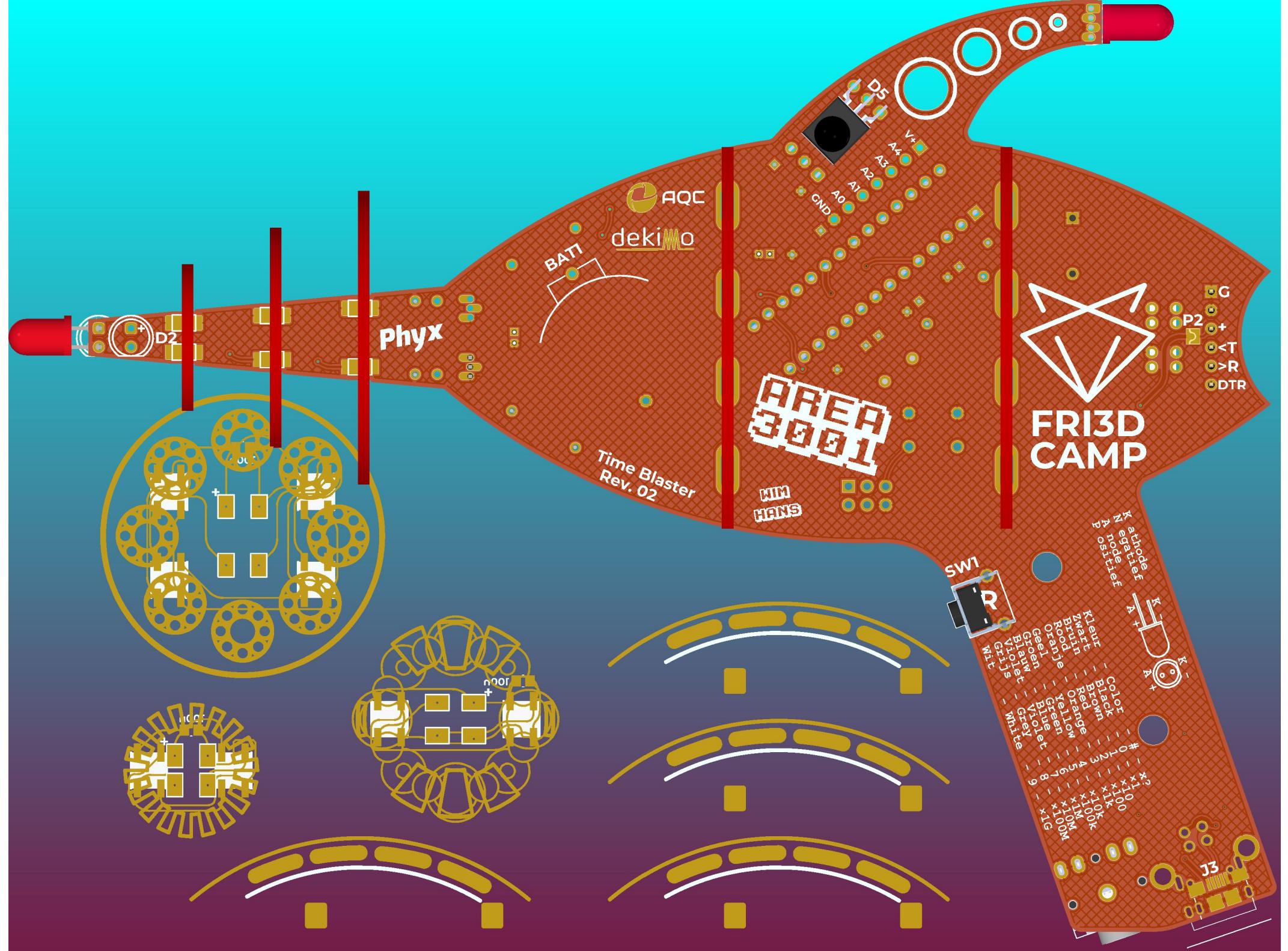


<b>Phyx</b>	Document	Time Blaster
	Layer Name	Assembly Top
	Date	Rev
	11/01/2022	02
Designer WimUG	Document	
	Fri3d_2020_Time_Blaste_02.PcbDoc	



<b>Phyx</b>	Document Time Blaster
Layer Name	Assembly Bottom
Date	Rev
11/01/2022	02
Designer WimUG	Document Fri3d_2020_Time_Blaste_02.PcbDoc





# Fri3D Time Blaster

## CR2032 Battery

## Programming

