

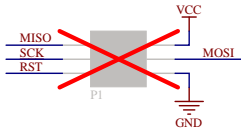
Fri3D Time Blaster

Rev. 00 : Initial release

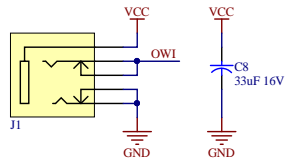
CR2032 Battery



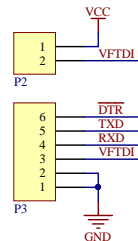
Programming



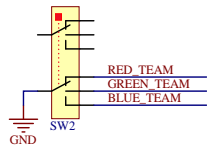
Badge Link



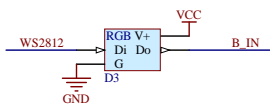
UART - FTDI pinout



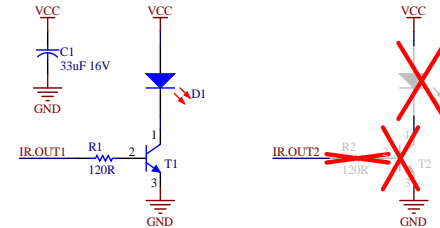
Team switch



Team Indicator

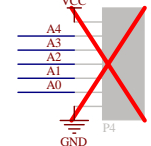


IR Transmitters



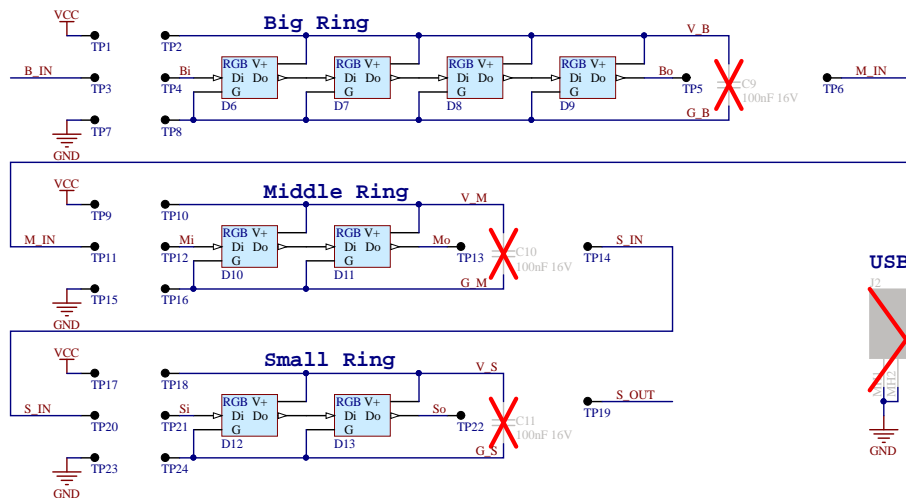
Vf = 1.2V @ 20mA
Vf = 1.4V @ 100mA
Vf = 2.6V @ 1000mA
For 100mA and more a max pulse width of 100µs with duty cycle less than 1%
No resistor required, the Vf rises above 4V if the current increases. OK for VCC = 3.3V

Extra pins

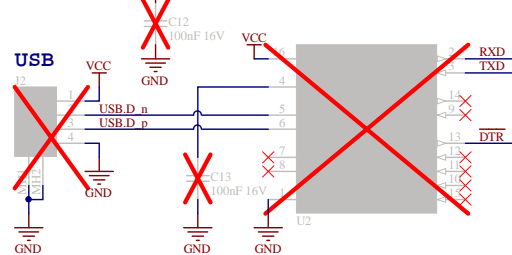


SMD AREA

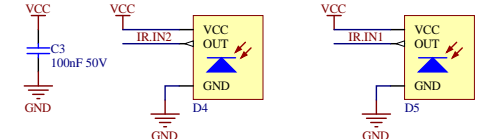
Light Effect



Optional USB Interface

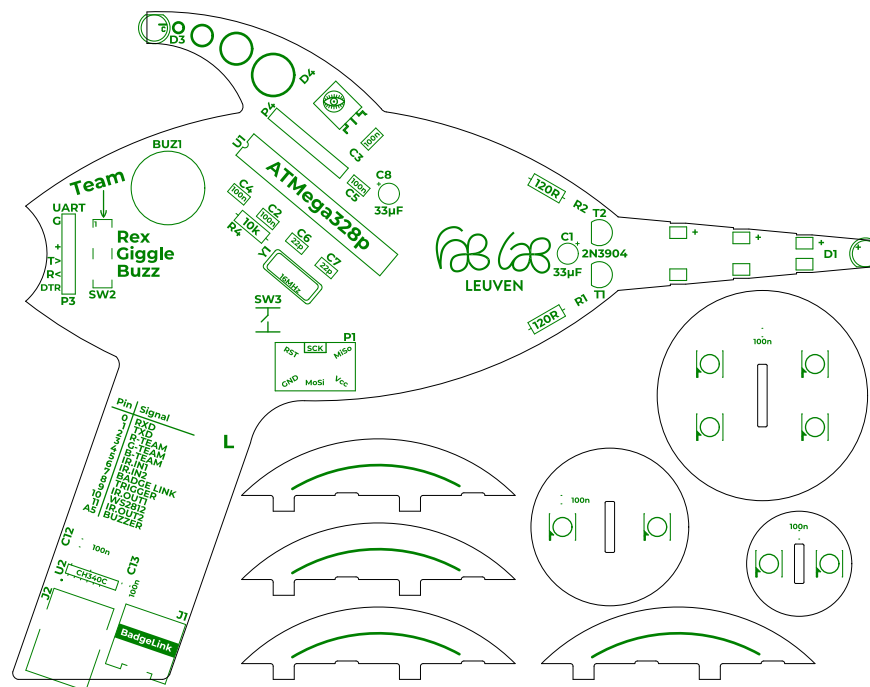



IR Receivers 940nm

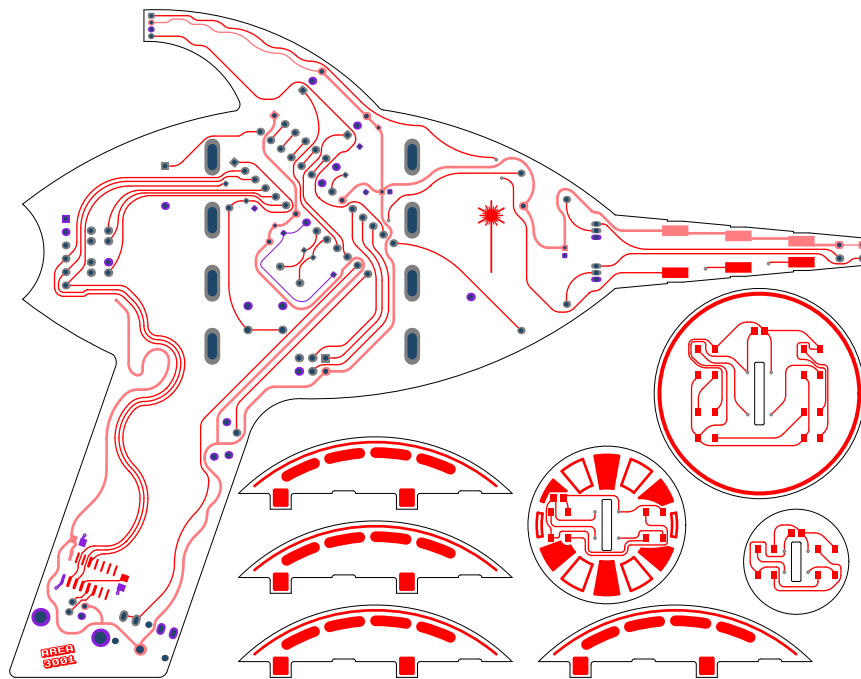


Variant Name = Default

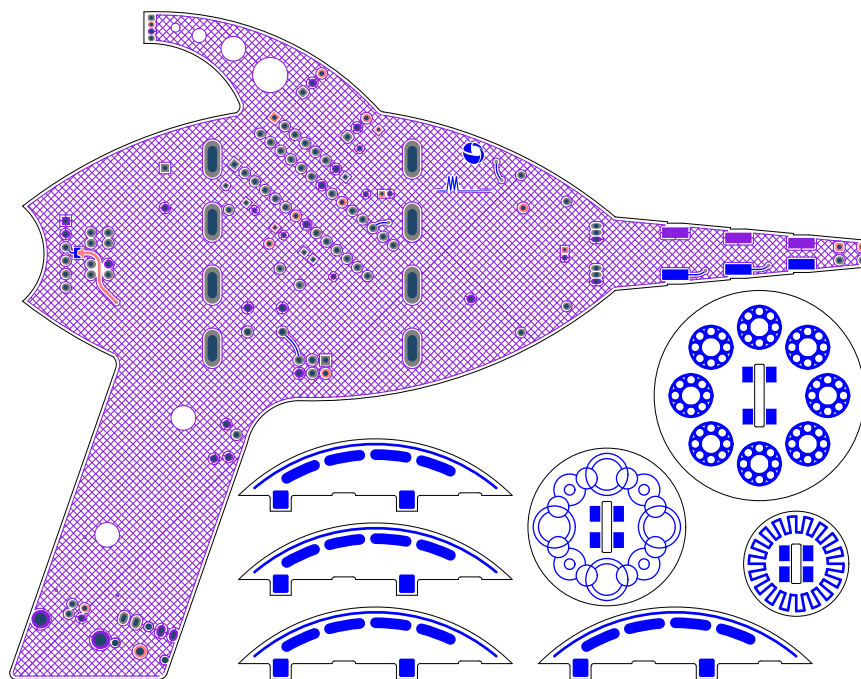
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	Time Blaster	
Revision 00	Date	10/09/2019
	Size	A3
Drawn By Wim Van Gool		Sheet 1 of 1



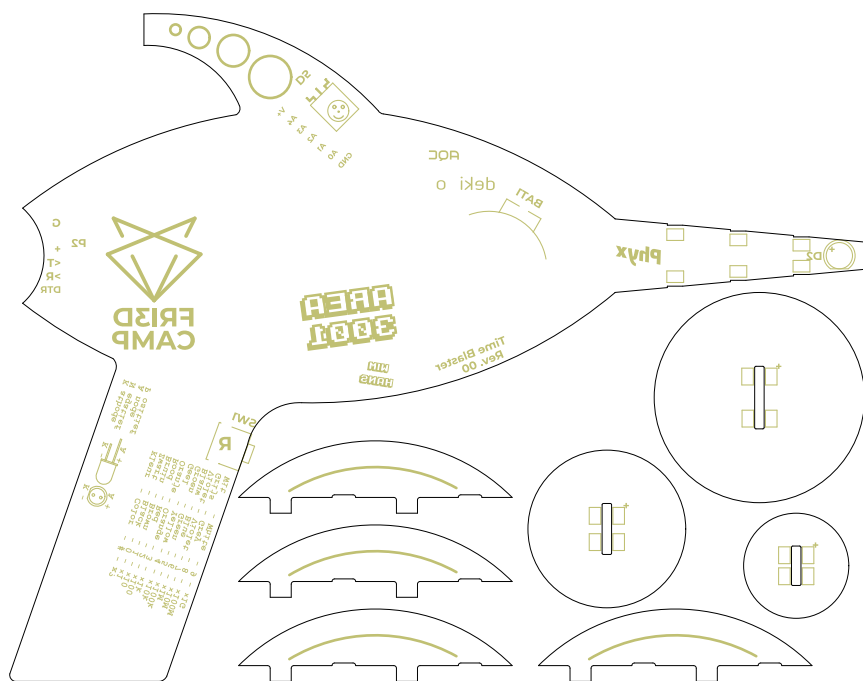
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Date	03/10/2019	
	Rev	00
Designer		Document
WimVG		Fri3d_2020_Time_Blastor_00.PcbDoc



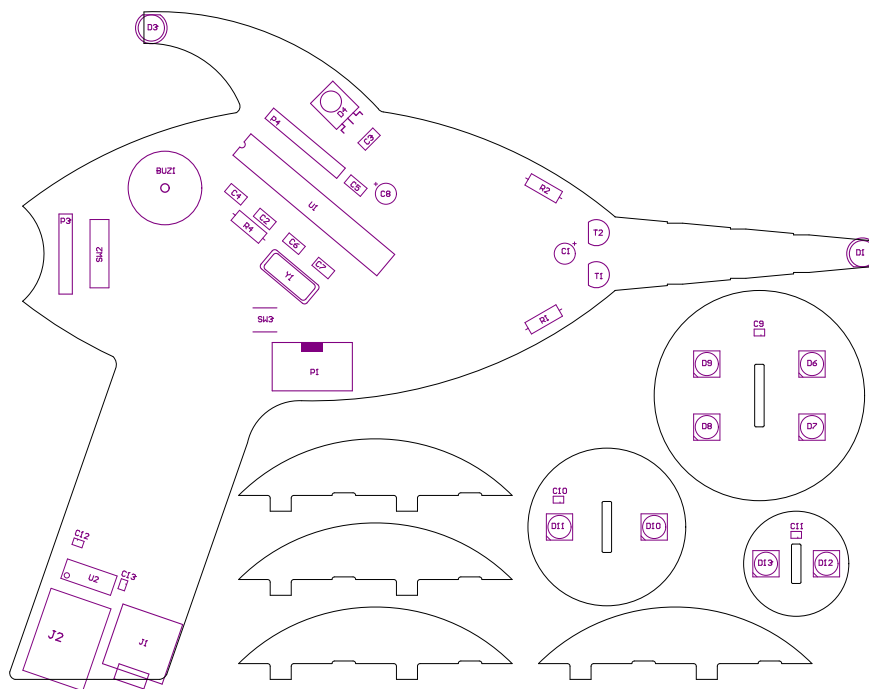
Phyx	Document	
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Designer WimVG	Date	Rev
	03/10/2019	00
Document		
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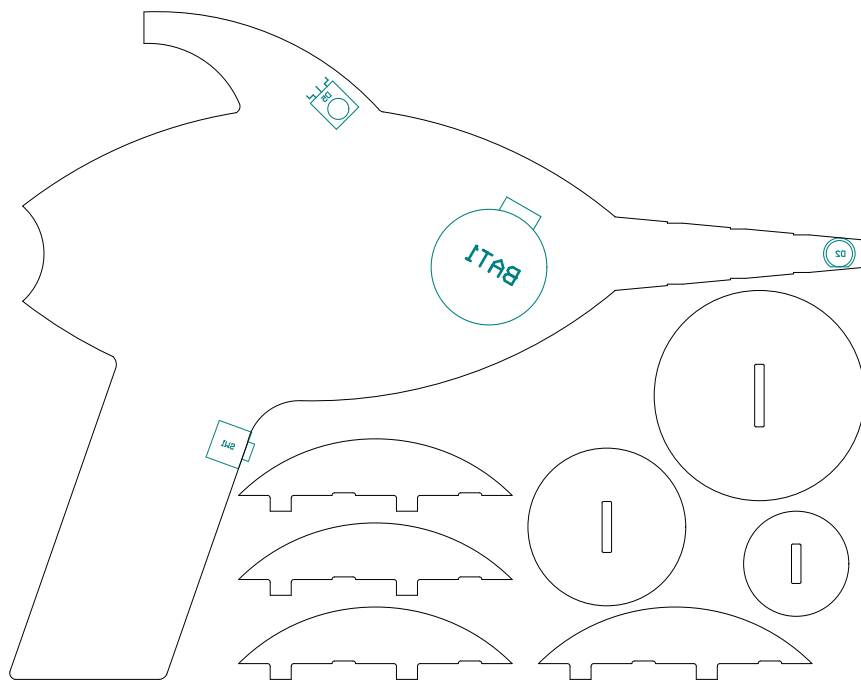
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Document		
Fri3d_2020_Time_Blaster_00.PcbDoc		



Phyx	Document	
	Time Blaster	
	Layer Name	
	Bottom Overlay	
Designer WimVG	Date	Rev
	03/10/2019	00
Document		
Fri3d_2020_Time_Blaste_00.PcbDoc		



Phyx	Document	
	Time Blaster	
	Layer Name	
	Assembly Top	
Designer WimVG	Date	Rev
	03/10/2019	00
Document		
Fri3d_2020_Time_Blastor_00.PcbDoc		



Phyx	Document	
	Time Blaster	
	Layer Name	
	Assembly Bottom	
Designer WimVG	Date	Rev
	03/10/2019	00
Document		
Fri3d_2020_Time_Blaster_00.PcbDoc		

