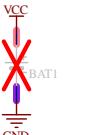
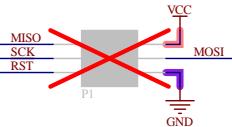
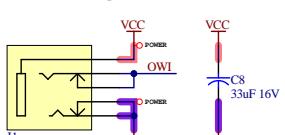
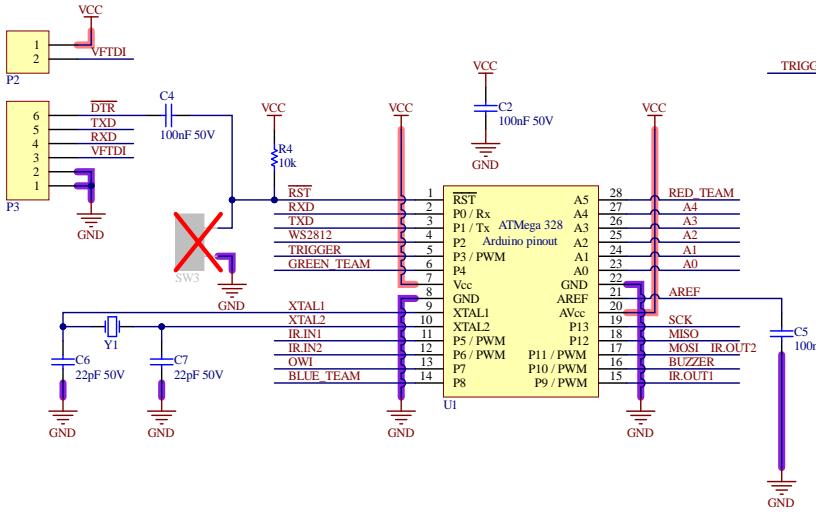
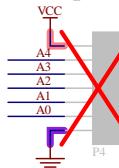


Fri3D Time Blaster

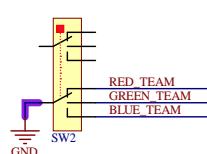
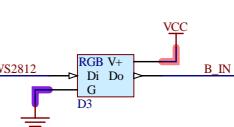
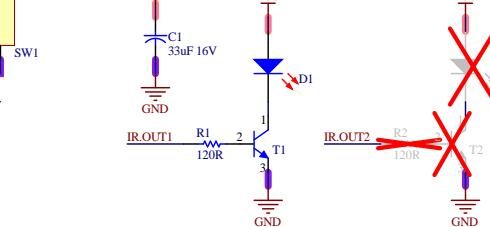
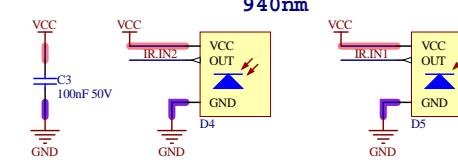
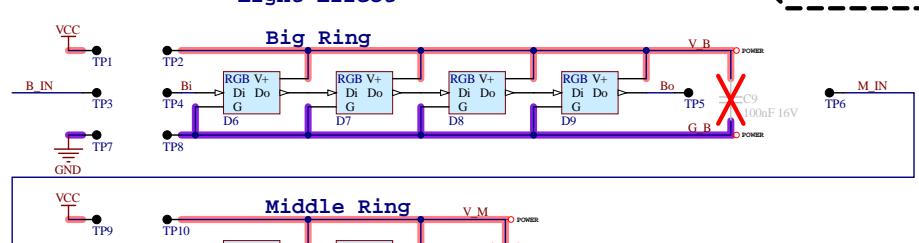
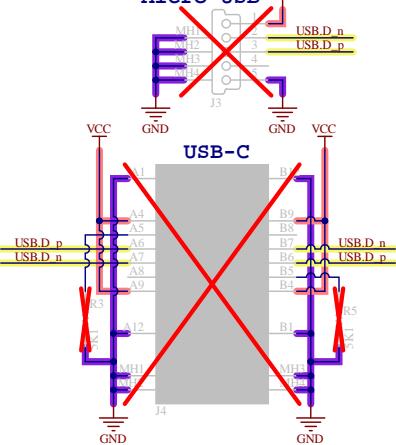
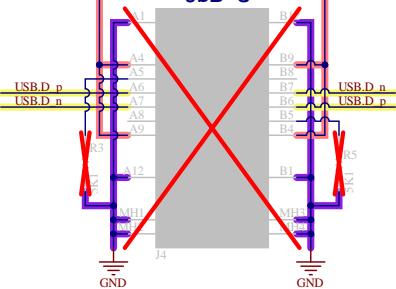
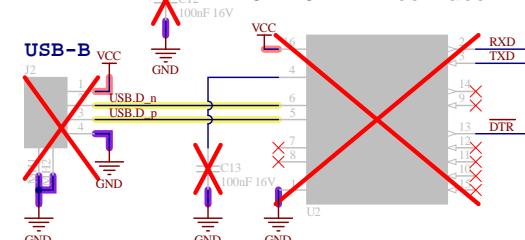
Rev. 00 : Initial release

Rev. 01: USB Fixed + increased solderability

CR2032 Battery**Programming****Badge Link****UART - FTDI pinout****Buzzer****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 100µs with duty cycle less than 1%

No resistor required, the V_f rises above 4V if the current increases. OK for $VCC = 3.3V$

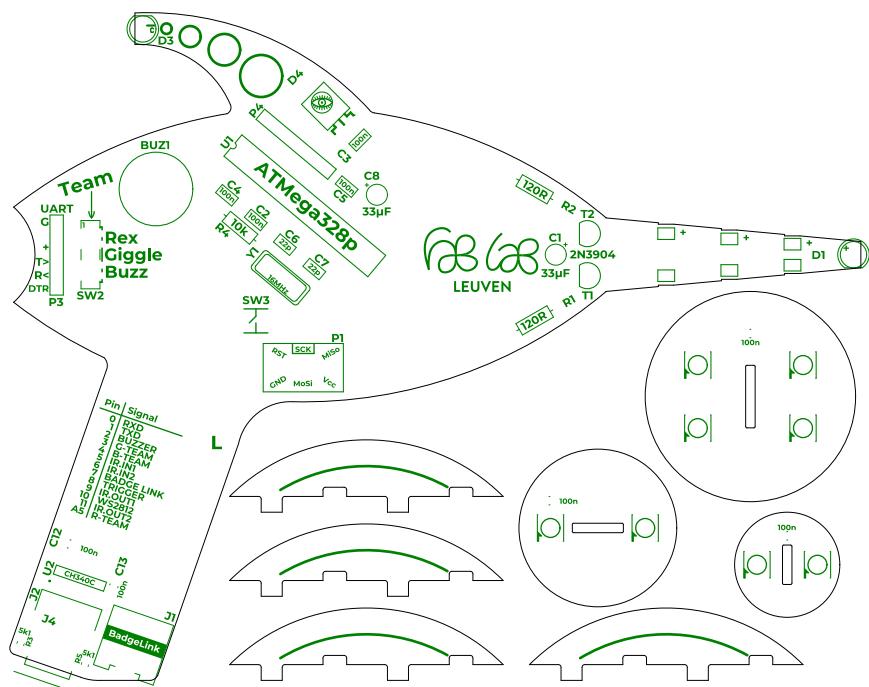
Team switch**Team Indicator****IR Transmitters****IR Receivers 940nm****SMD AREA****Light Effect****Micro-USB****USB-C****USB-UART Interface**

Variant Name = Default

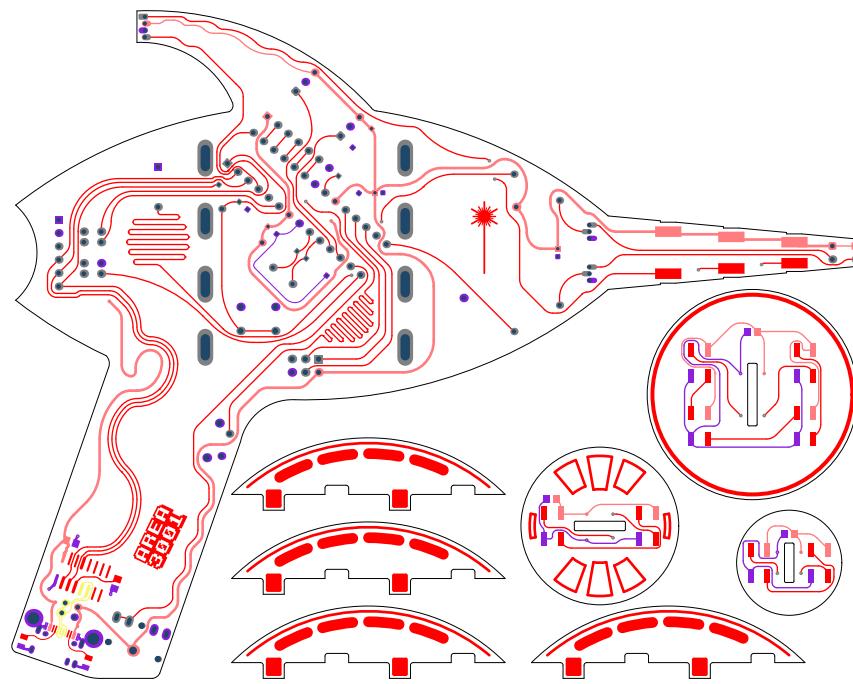
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Title	Time Blaster
Date	08/01/2020
Drawn By	Wim Van Gool

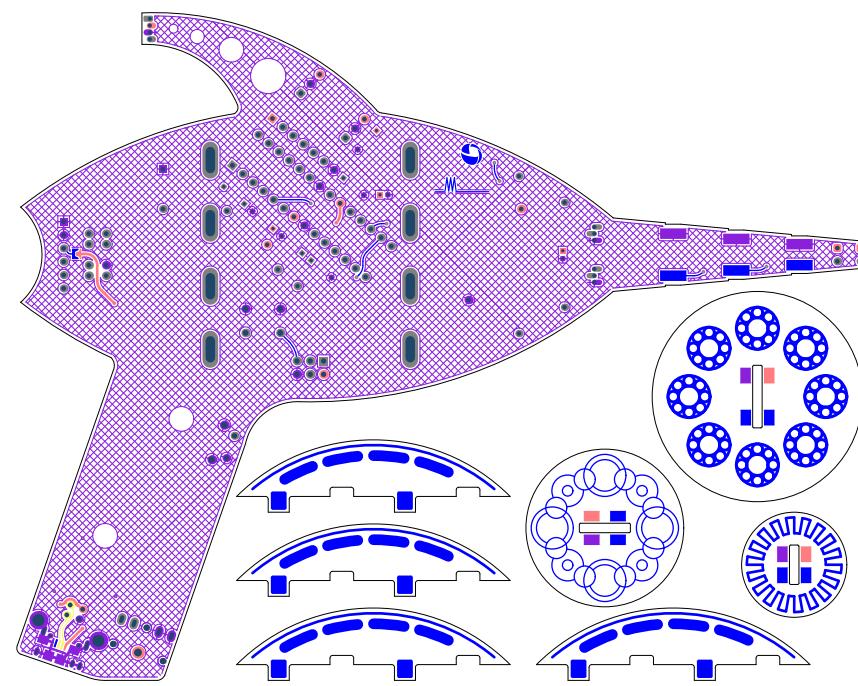
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Sheet 1 of 1



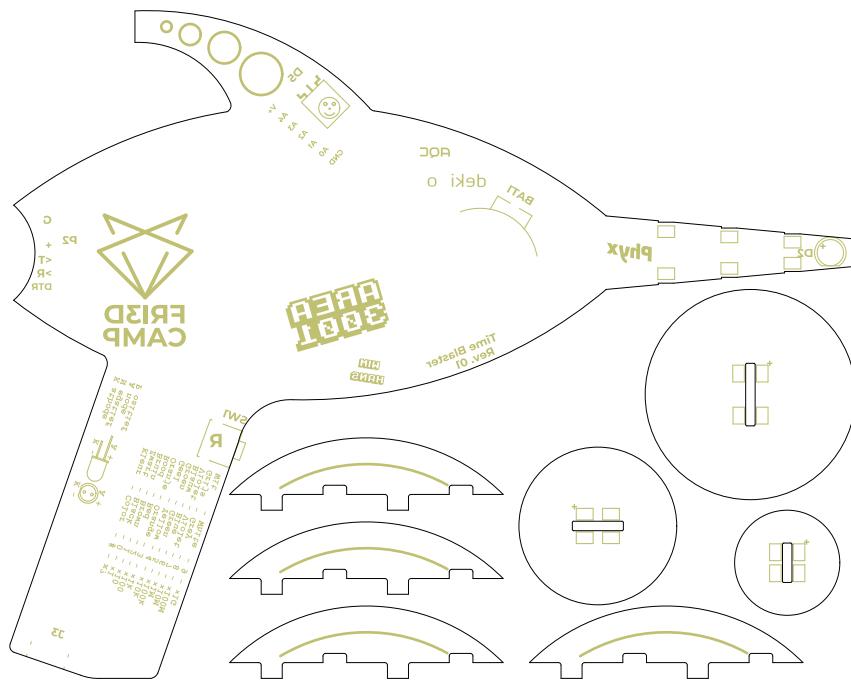
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Designer		Document
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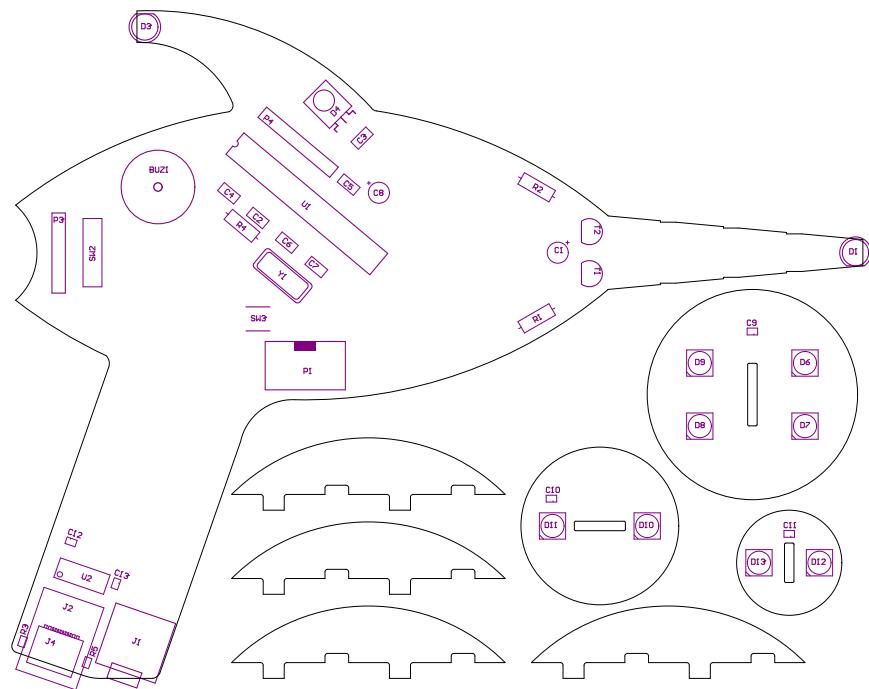
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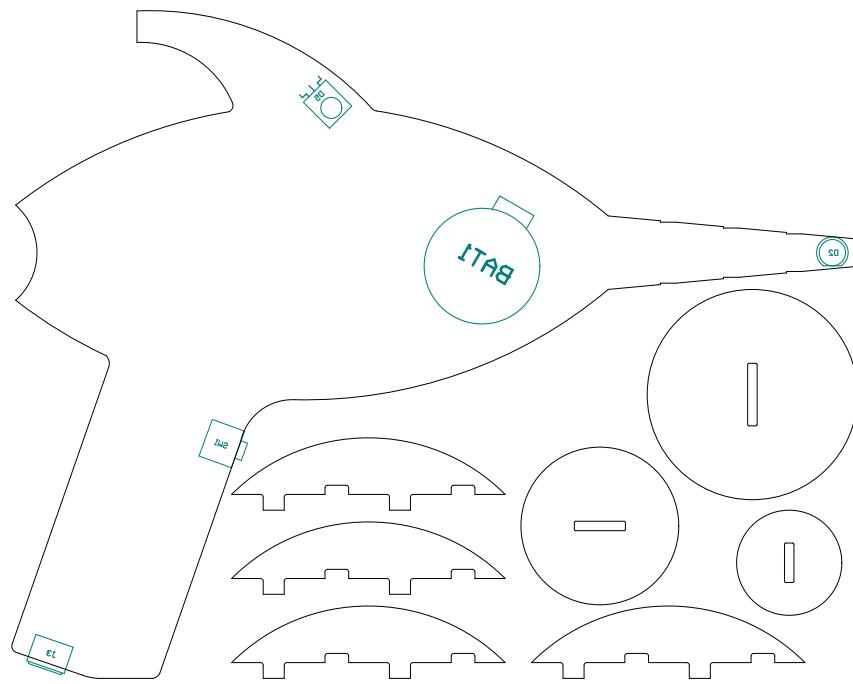
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Date 29/03/2020	Rev 01
Designer WimUG	Document Fri3d_2020_Time_Blaste_01.PcbDoc



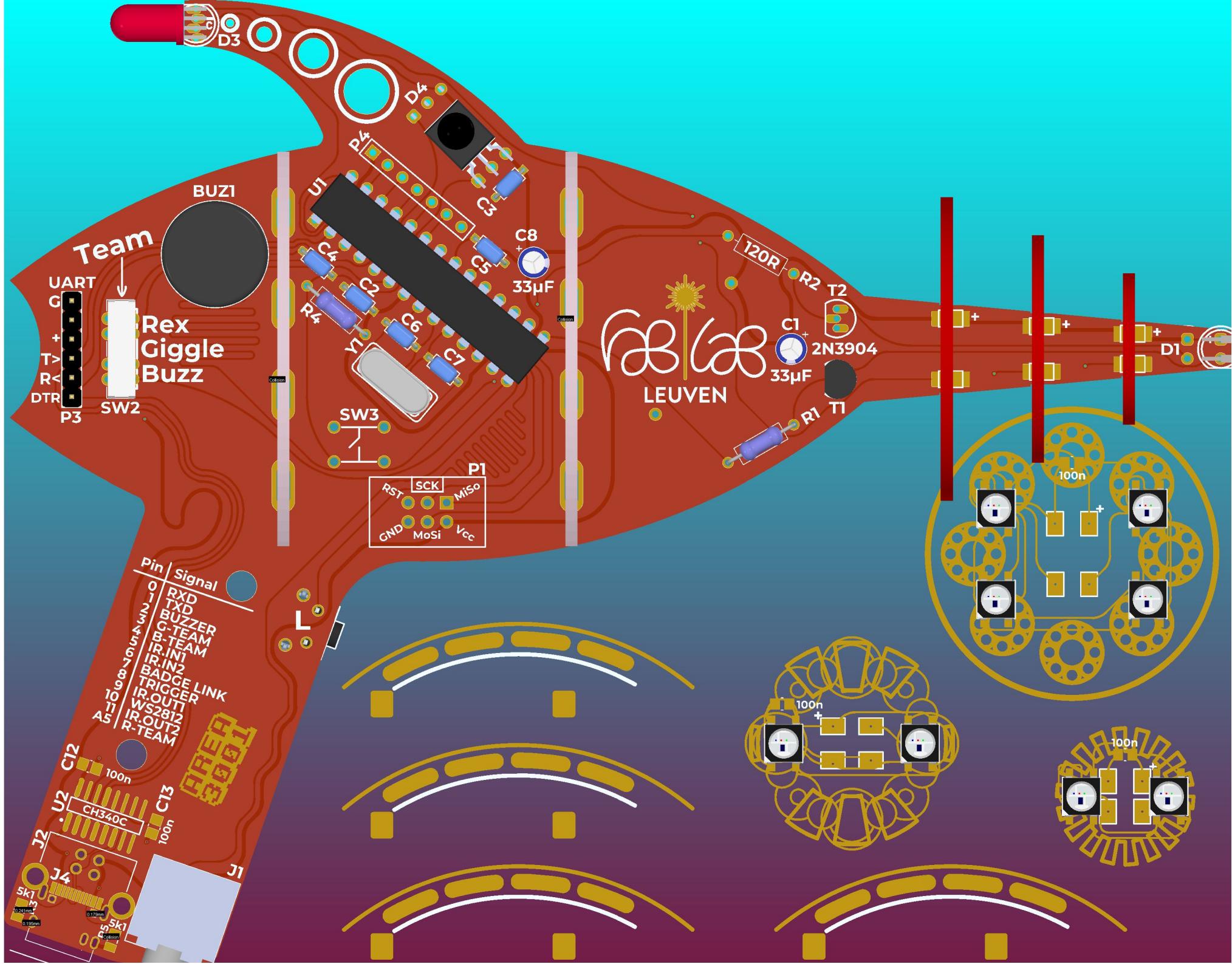
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	Date 29/03/2020
	Rev 01
Designer WimUG	Document Fri3d_2020_Time_Blaste_01.PcbDoc

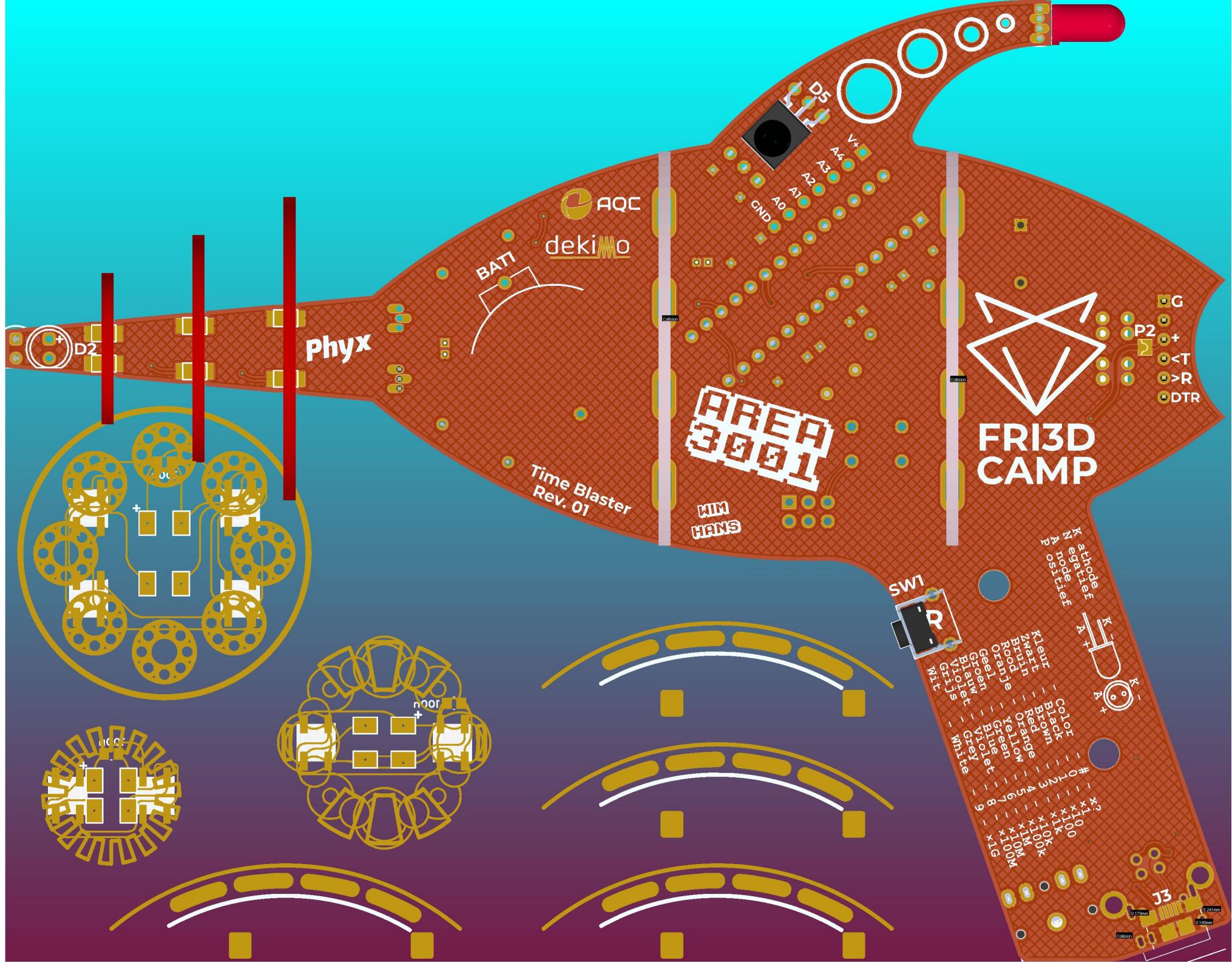


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	Rev	01
Designer WimUG	Document	Fri3d_2020_Time_Blaste_01.PcbDoc



Document	Time Blaster
Layer Name	Outline Bottom
Date	29/03/2020
Rev	01
Designer	WimUG
Document	Fri3d_2020_Time_Blaste_01.PcbDoc

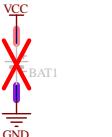
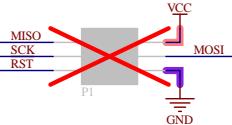
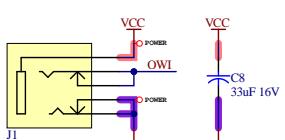
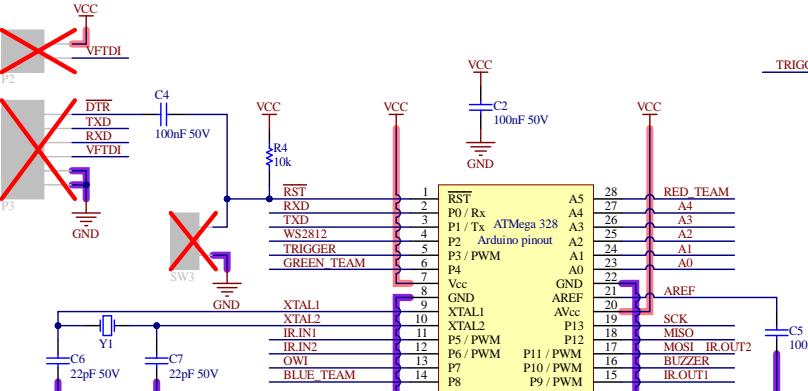
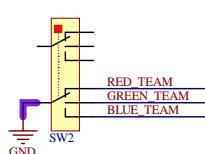
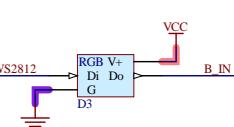
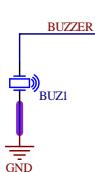
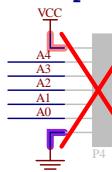




Fri3D Time Blaster

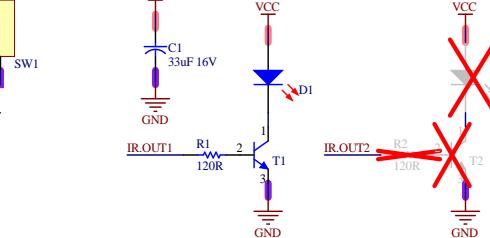
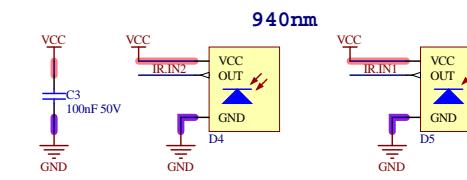
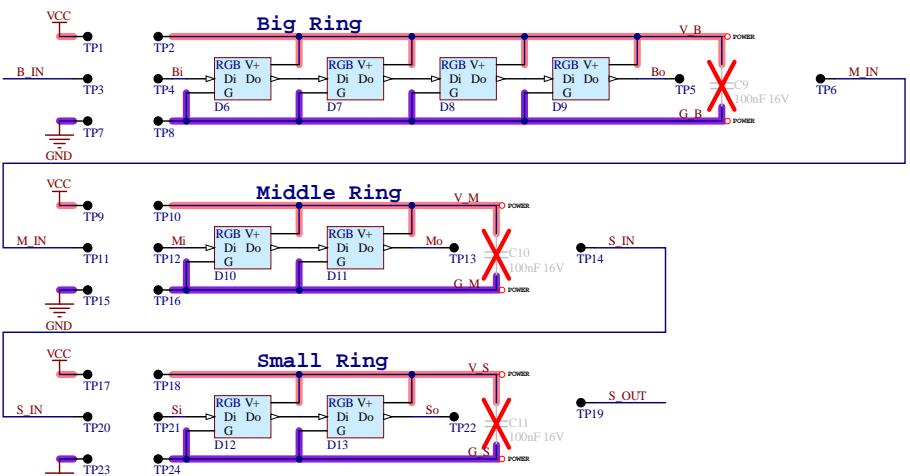
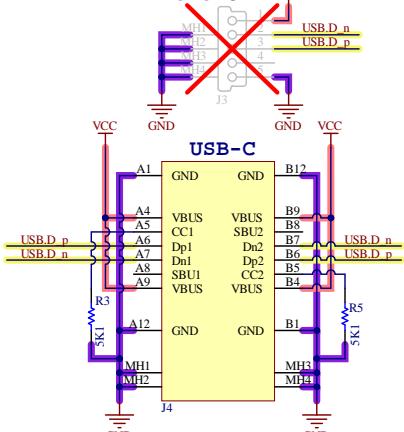
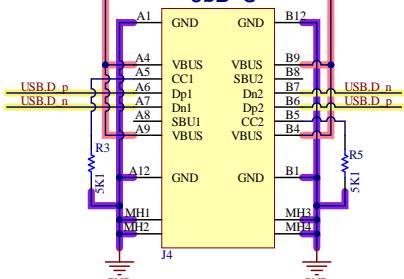
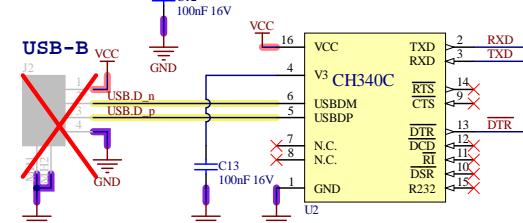
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IR Transmitters**IR Receivers 940nm****SMD AREA****Light Effect****Micro-USB****USB-C****USB-UART Interface**

Variant Name = USB

Phyx

Title Time Blaster

Date 08/01/2020

Size A3

Draaw By Wim Van Gool

Sheet 1 of 1