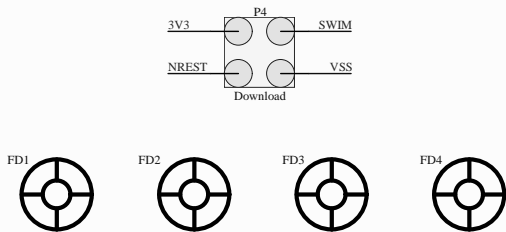
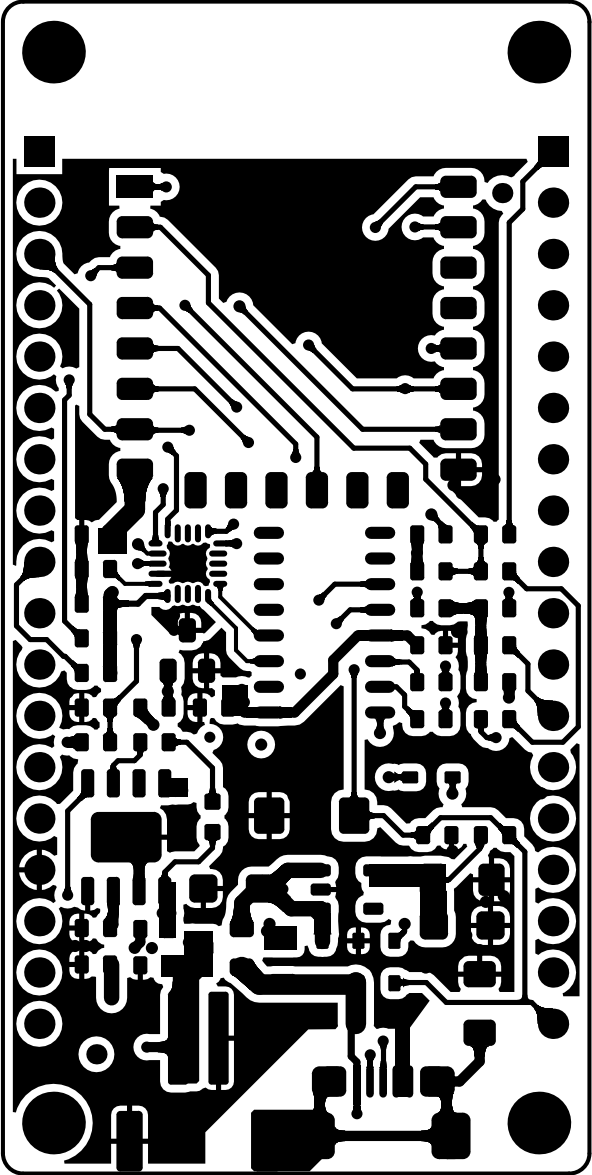


Auto program circuit

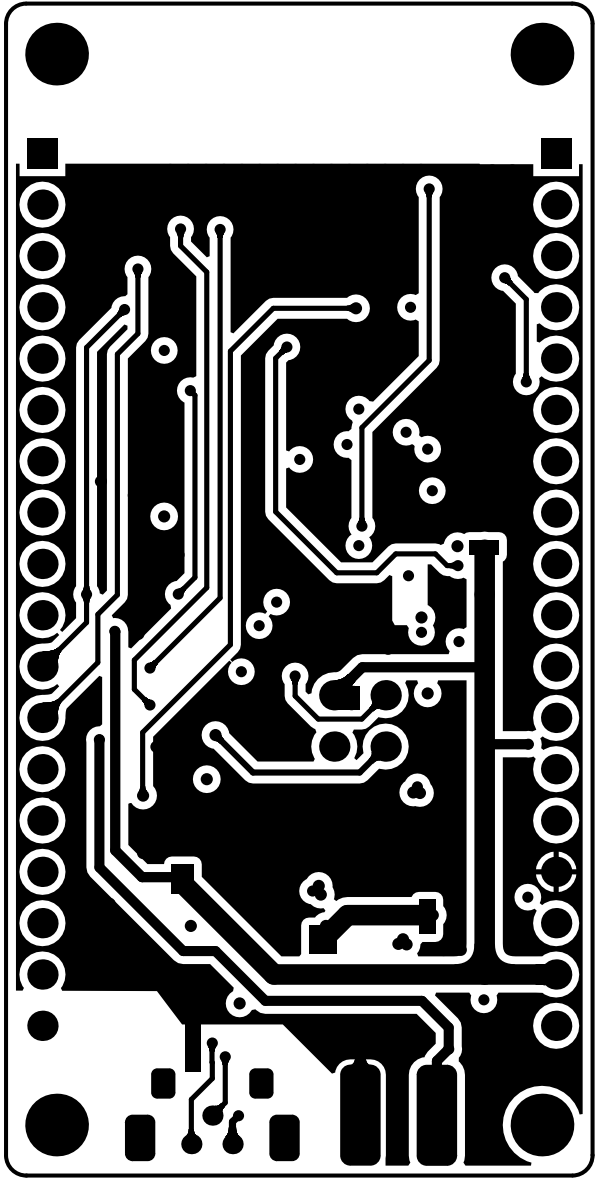
DTR#	RTS#	RST	GPIO0
1	1	1	1
0	0	1	1
1	0	0	1
0	1	1	0

P1		P2	
IO3/RXD	RXD	1	A0
IO1/TXD	TXD	2	NC
IO13/D2	GPIO13	3	NC
IO10/D3	GPIO10	4	NC
IO15/D4	GPIO15	5	NC
IO2/D5	GPIO2	6	NC
IO5/D6	GPIO5	7	GPIO0
IO4/D7	GPIO4	8	GPIO14
IO0/D8	GPIO0	9	MOSI
IO12/D9	GPIO12	10	MISO
NC		11	SDA
NC		12	SCL
NC		13	NC
NC		14	NC
GND		15	AREF
AREF	AREF	16	NC
3V3	3V3	17	NC
VCC	VCC	18	RST

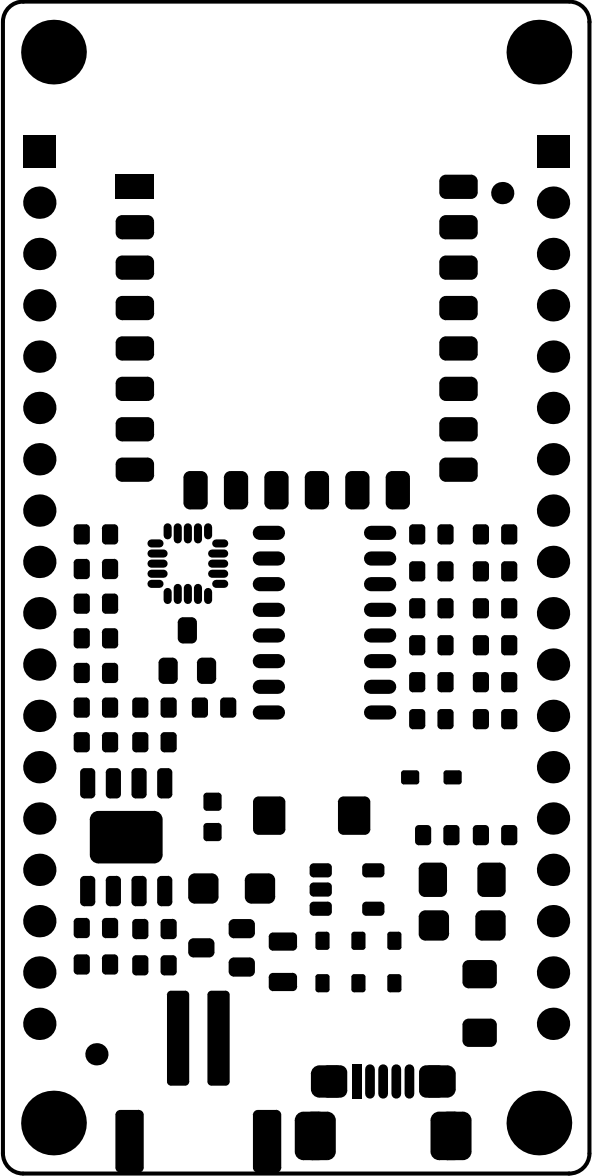




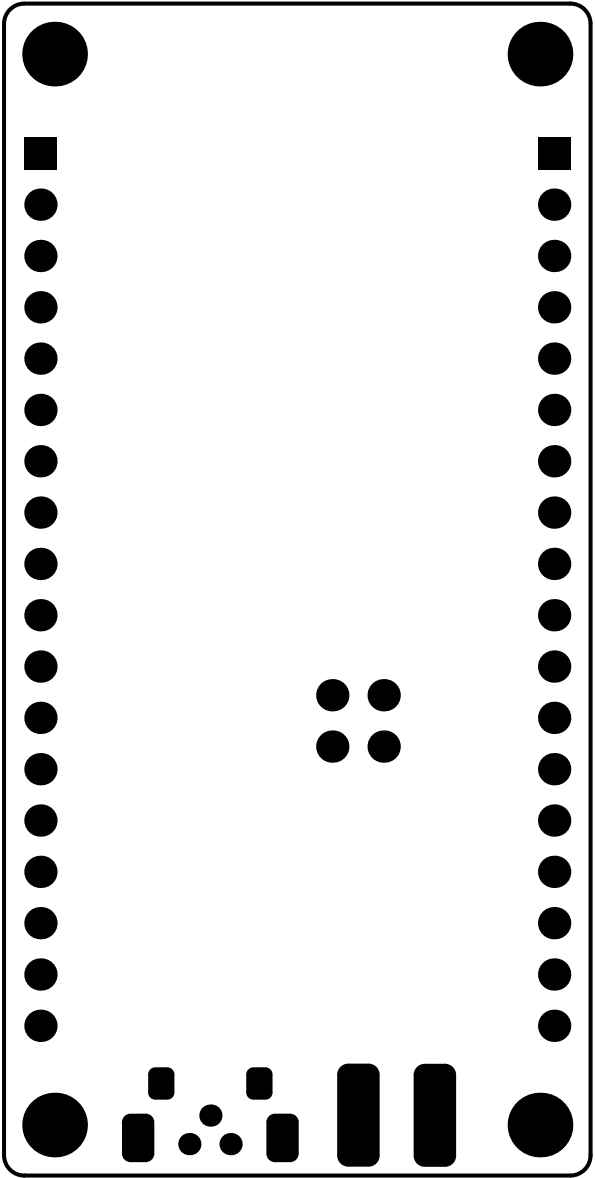
PCB Information	Name: DFR0489[V2.0]	Thickness: 1.6mm
Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 201800823	Top Silkscreen: White	Bottom Silkscreen: White



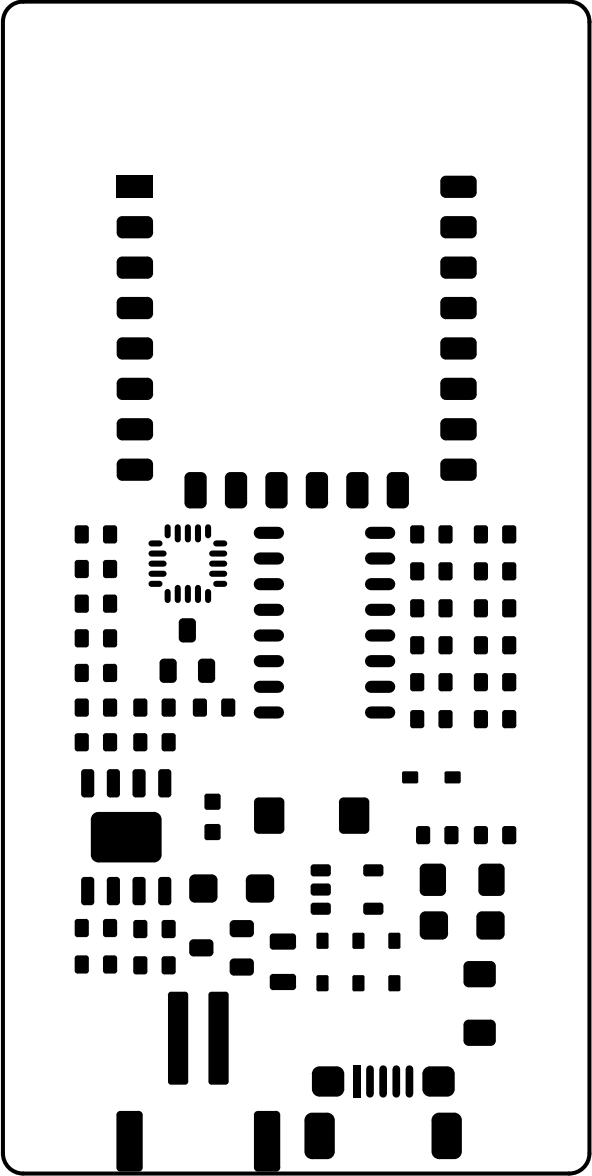
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Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 2017800823	Top Silkscreen: White	Bottom Silkscreen: White



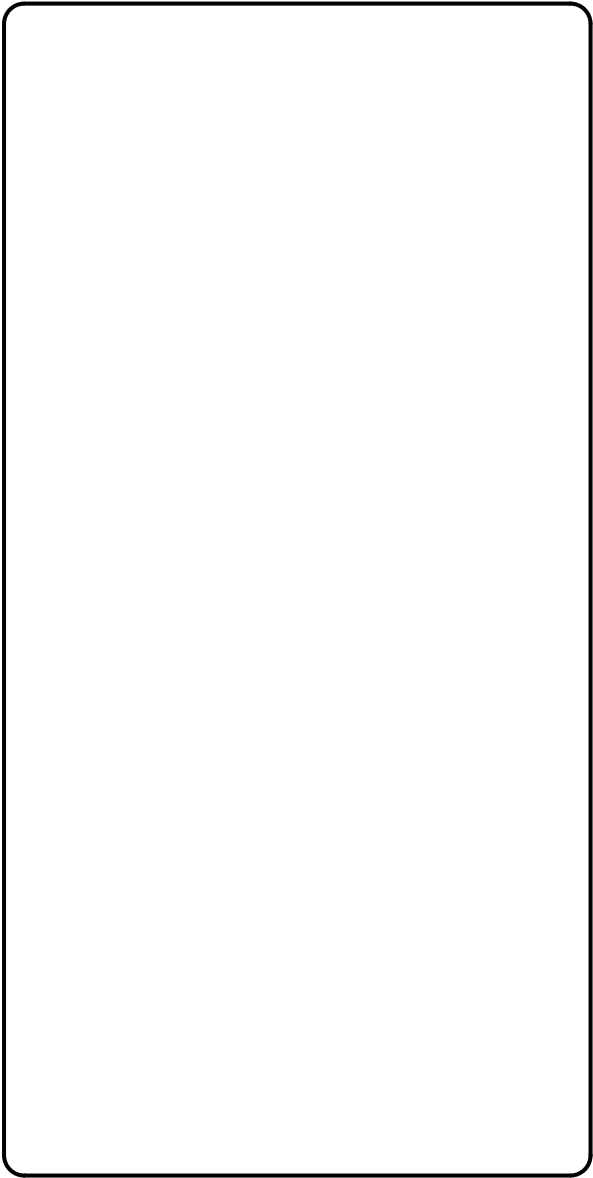
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Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 201800823	Top Silkscreen: White	Bottom Silkscreen: White



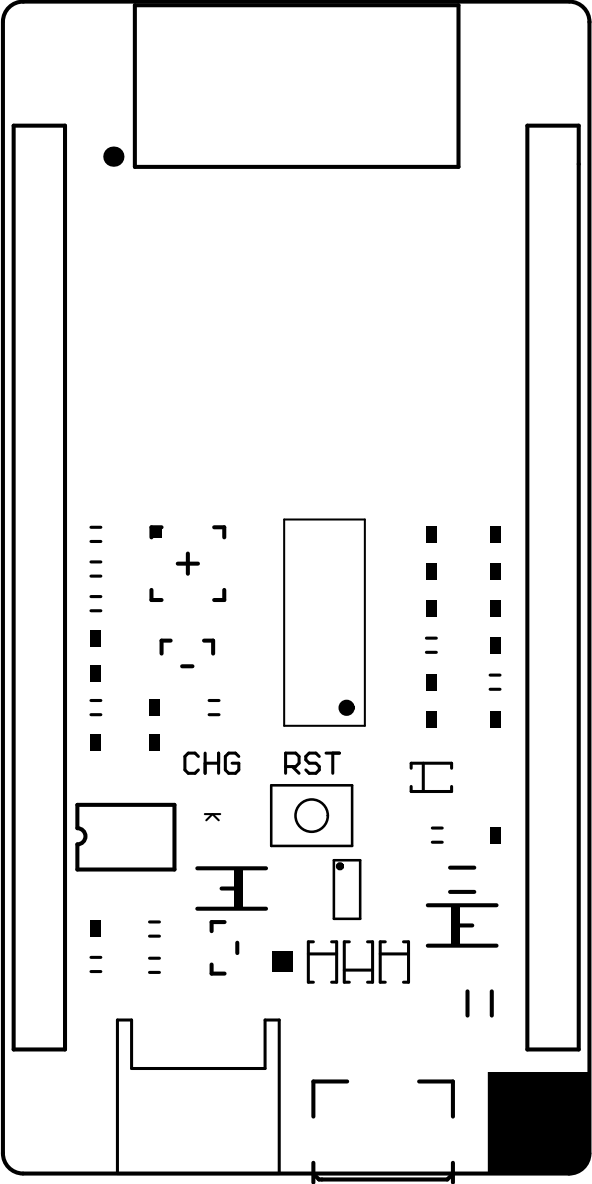
PCB Information	Name: DFR0489[V2.0]	Thickness: 1.6mm
Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 2017800823	Top Silkscreen: White	Bottom Silkscreen: White



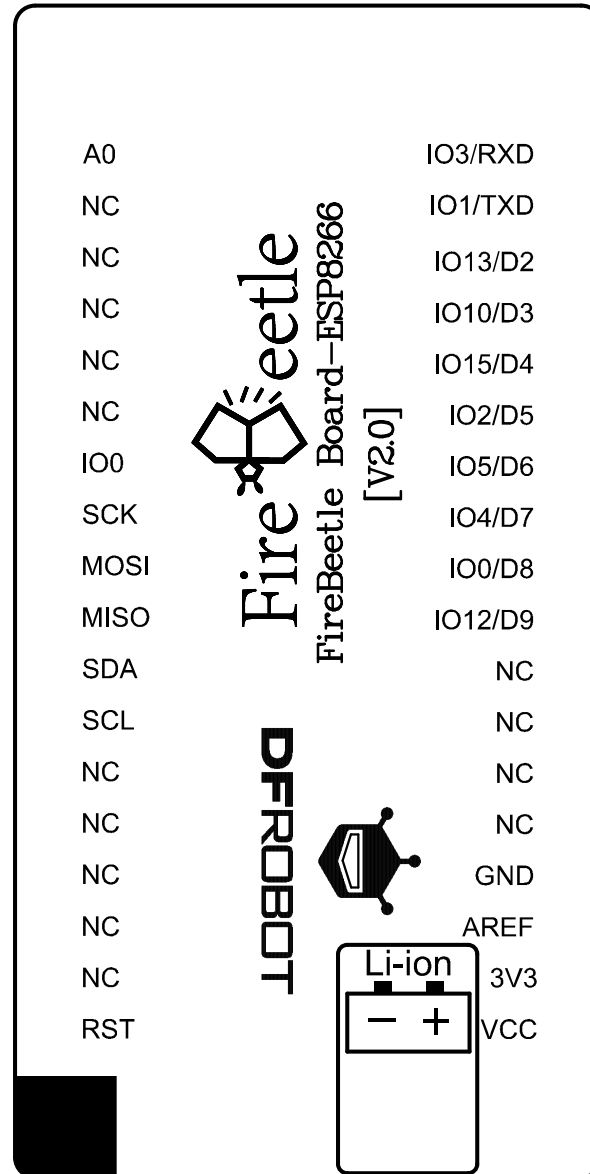
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Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 201800823	Top Silkscreen: White	Bottom Silkscreen: White



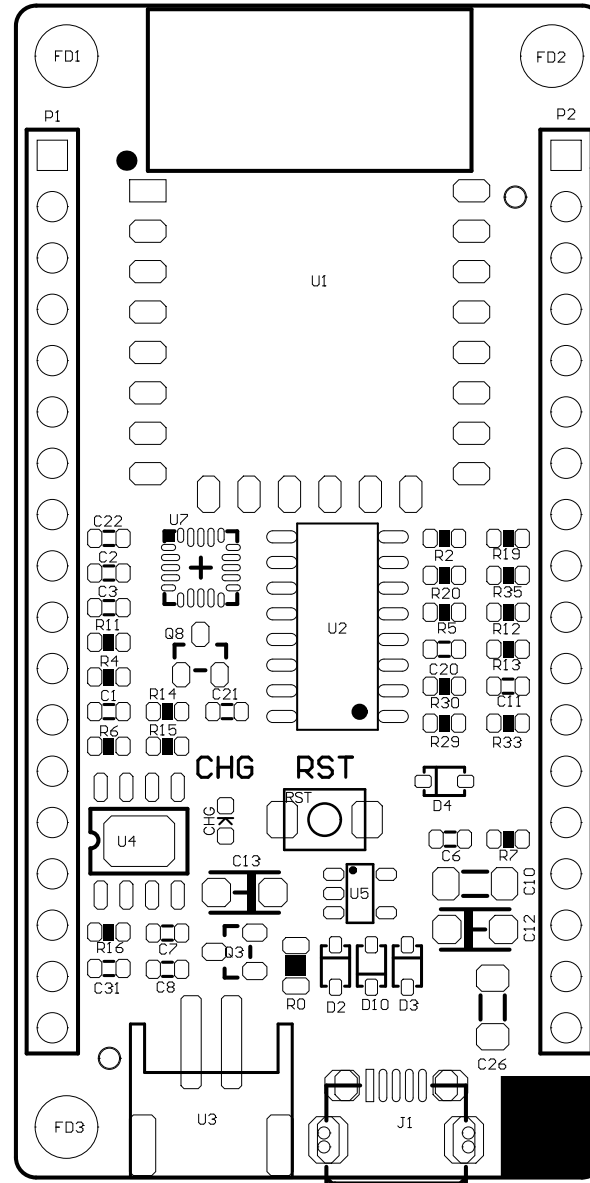
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Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 2017800823	Top Silkscreen: White	Bottom Silkscreen: White



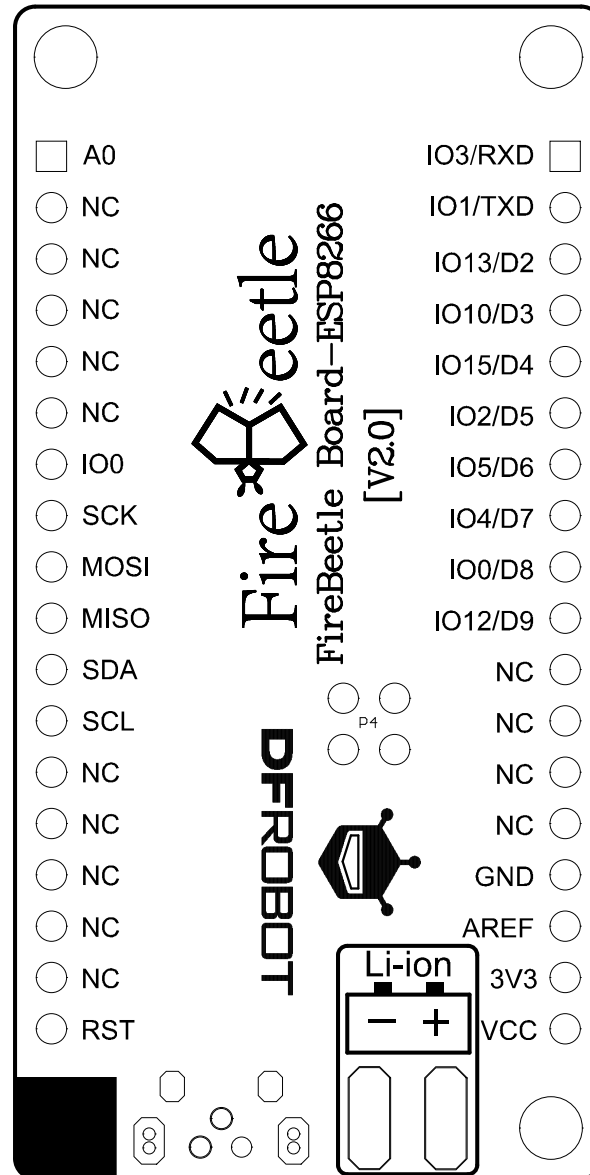
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Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 201800823	Top Silkscreen: White	Bottom Silkscreen: White



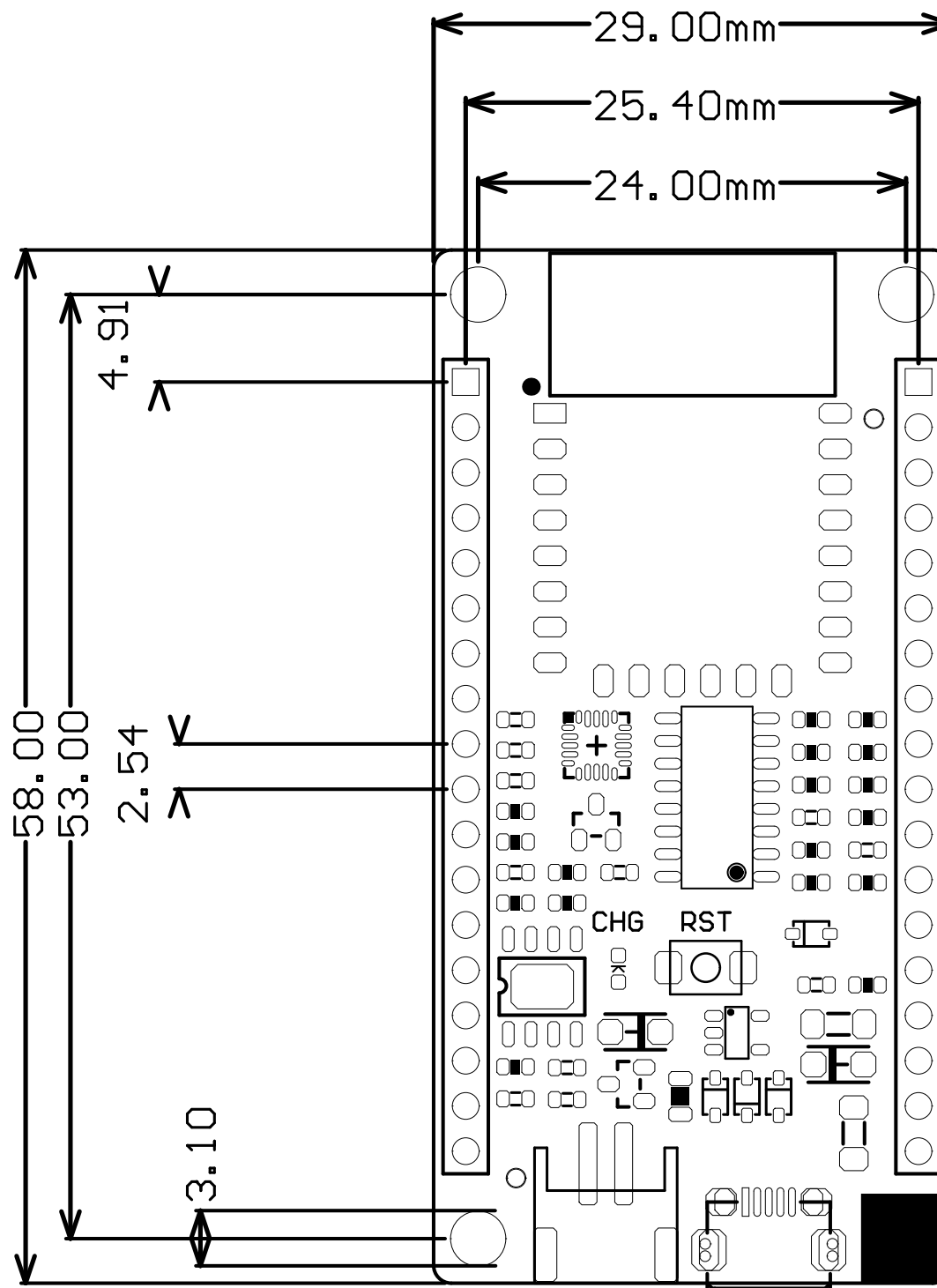
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Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 2017800823	Top Silkscreen: White	Bottom Silkscreen: White



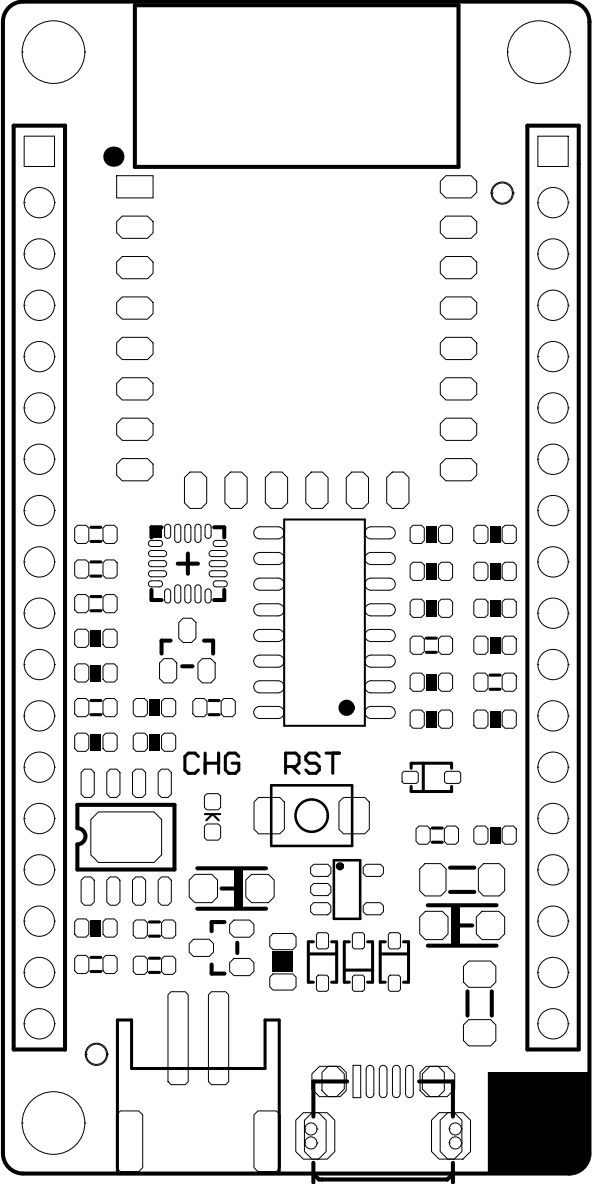
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Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 20180823	Top Silkscreen: White	Bottom Silkscreen: White



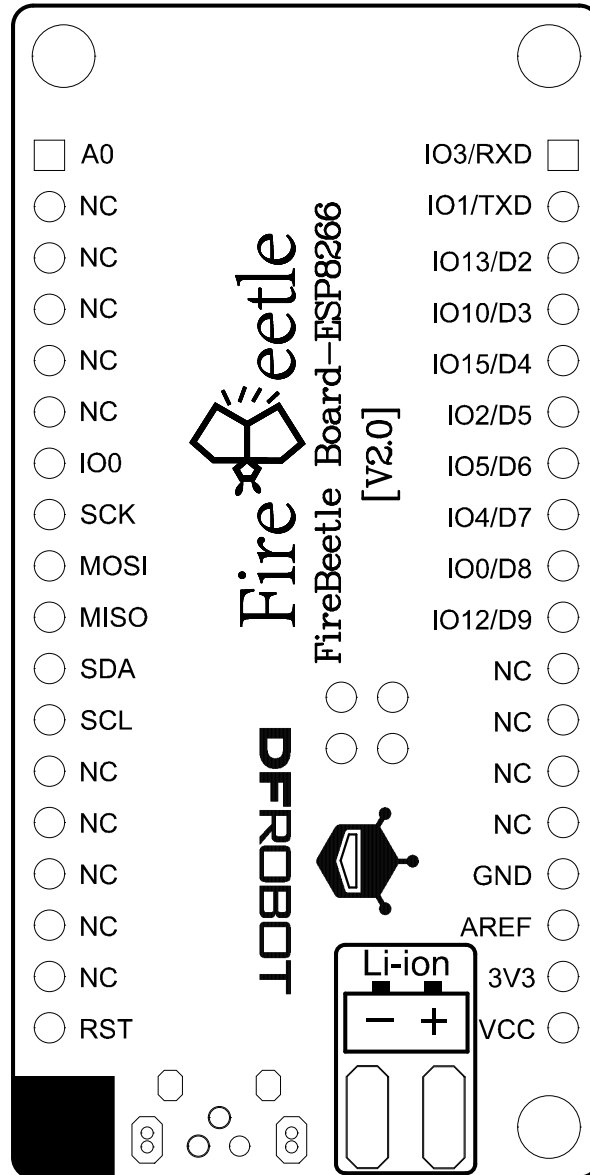
PCB Information	Name: DFR0489[V2.0]	Thickness: 1.6mm
Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 2017800823	Top Silkscreen: White	Bottom Silkscreen: White



PCB Information	Name: DFR0489[V2.0]	Thickness: 1.6mm
Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 201800823	Top Silkscreen: White	Bottom Silkscreen: White



PCB Information	Name: DFR0489[V2.0]	Thickness: 1.6mm
Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 201800823	Top Silkscreen: White	Bottom Silkscreen: White



PCB Information	Name: DFR0489[V2.0]	Thickness: 1.6mm
Engineer: Aaron	Top SolderMask: Black	Bottom SolderMask: Black
Date: 2017800823	Top Silkscreen: White	Bottom Silkscreen: White