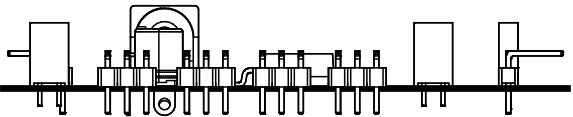
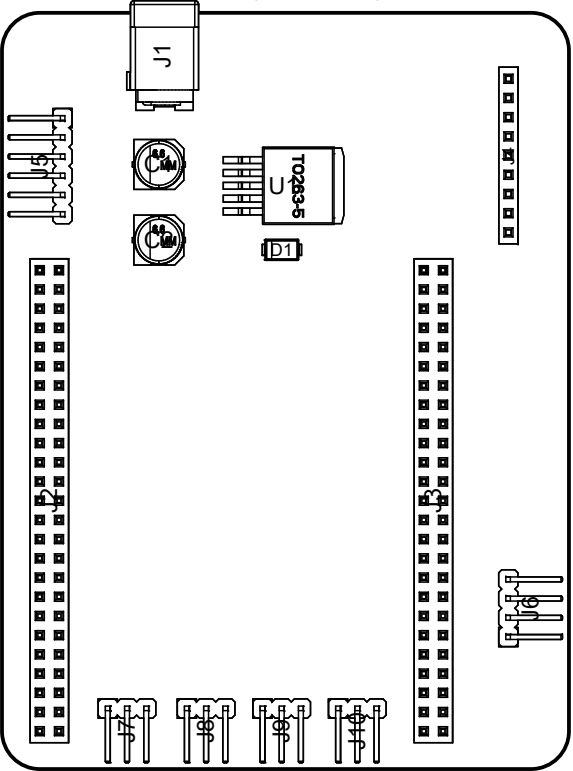


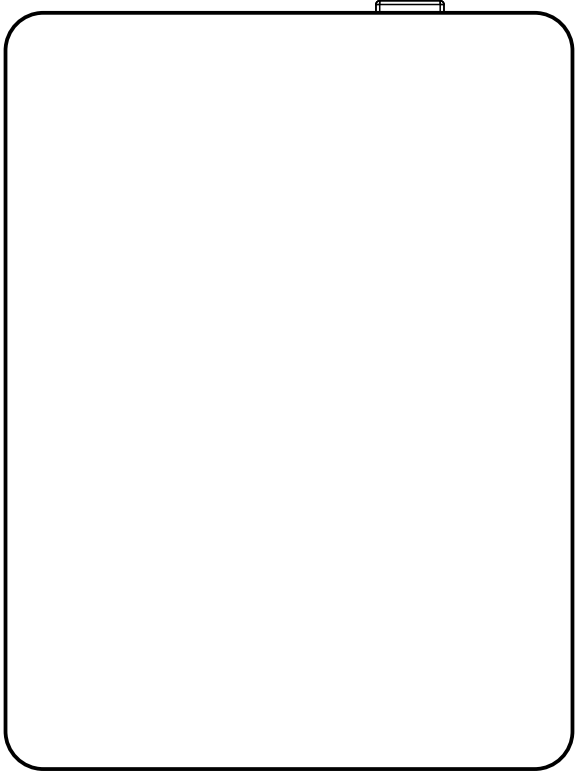
View from Front side (Scale 1:1)



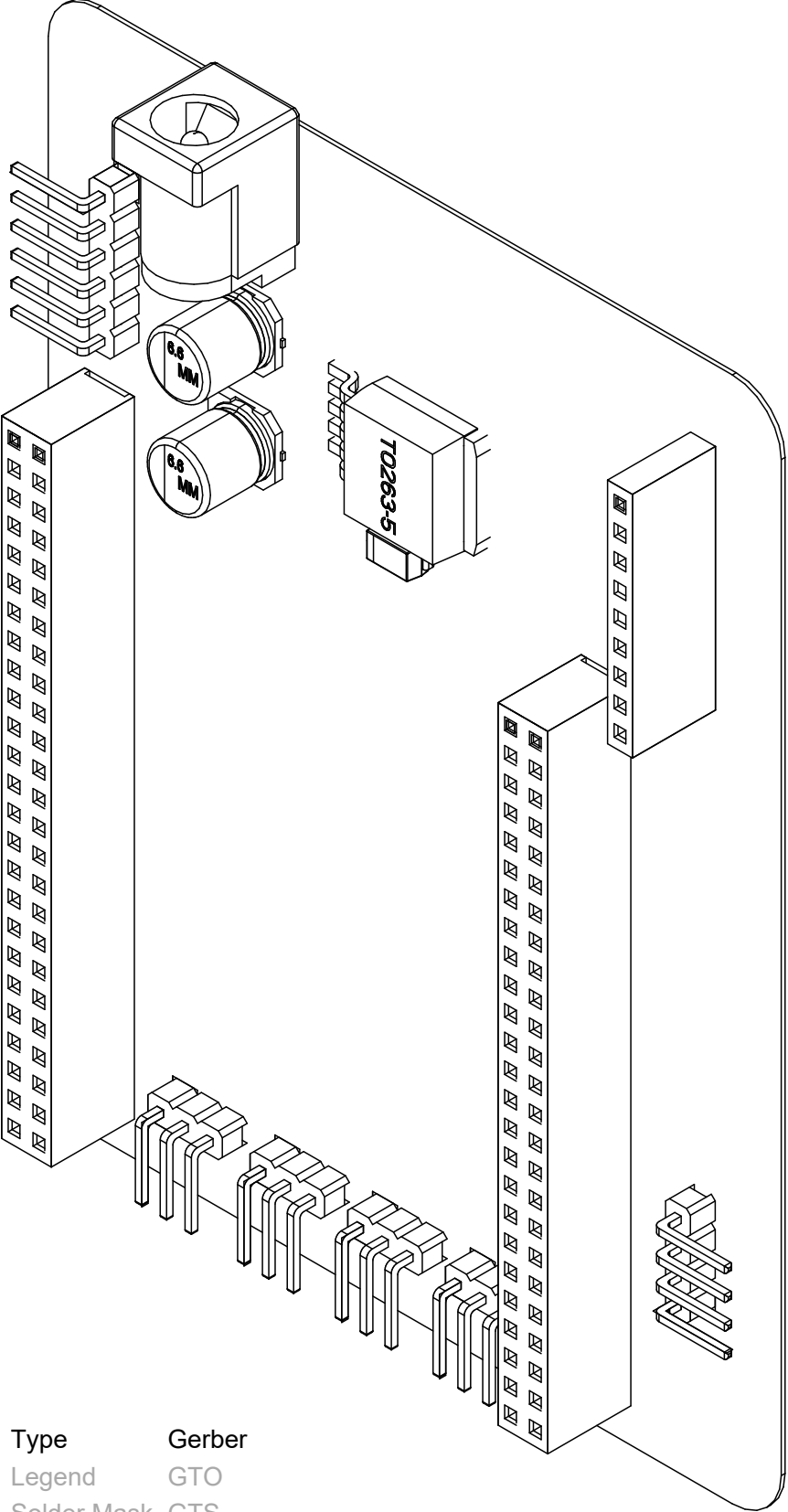
View from Top side (Scale 1:1)



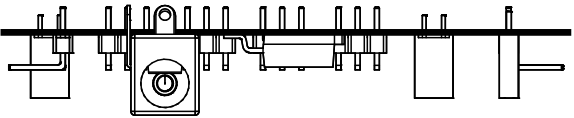
View from Bottom side (Scale 1:1)



View from Top side (Scale 2:1)

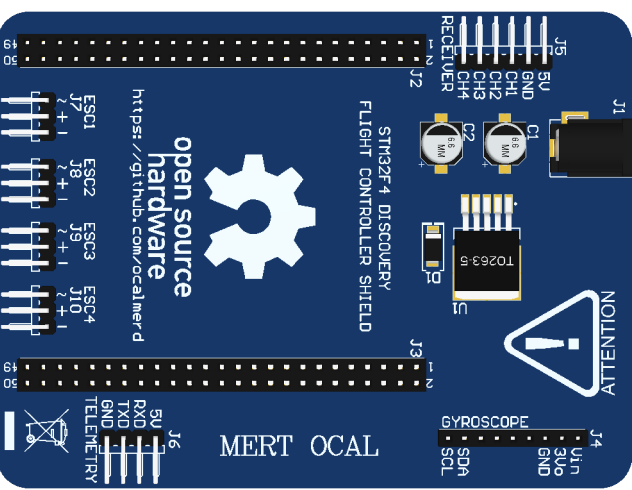


View from Right side (Scale 1:1)

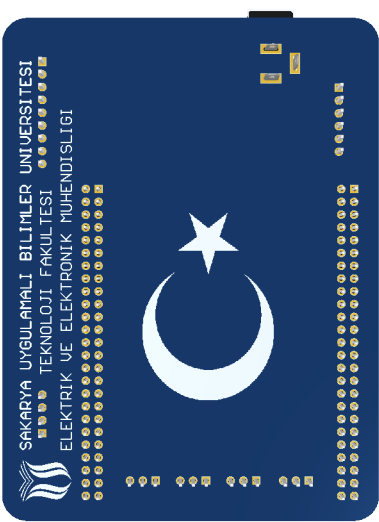


View from Back side (Scale 1:1)

Realistic View from the Top side



Realistic View from the Back side



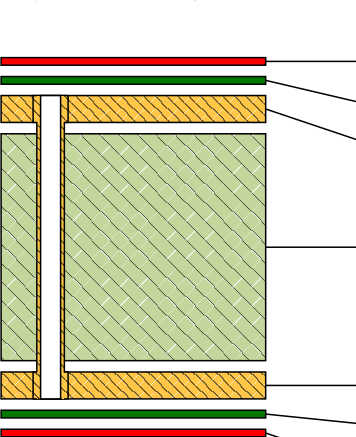
Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	3	0.80mm	Plated	None
◇	109	0.90mm	Plated	None
○	22	1.00mm	Plated	None
134 Total				

Bill Of Materials

Line #	Designator	Name	Quantity
	C1, C2	CAP ALUM 220UF 20% 16V SMD	2
	D1	SMAJ5.0A TVS Diyot	1
	J1	DC Power Jack	1
	J2	Left Pins Connector	1
	J3	Right Pins Connector	1
	J4	L3GD20H Connector	1
	J5	R9DS Receiver Connector	1
	J6	433MHz Air Connector	1
	J7	ESC1 Connector	1
	J8	ESC2 Connector	1
	J9	ESC3 Connector	1
	J10	ESC4 Connector	1
	U1	LM2576HVS-5.0 REG BUCK 5V 3A TO263-5	1

Layer Stack Legend



Material

Surface Material  
Copper

Copper

Surface Material

Layer

Top Overlay  
Top Solder  
Top Layer

Bottom Layer

Bottom Solder  
Bottom Overlay

Thickness

0.01mm  
0.04mm

0.32mm

0.04mm

0.01mm

Dielectric Material

Solder Resist

FR-4

Solder Resist

Type

Legend  
Solder Mask  
Signal

Dielectric

Signal

Solder Mask  
Legend

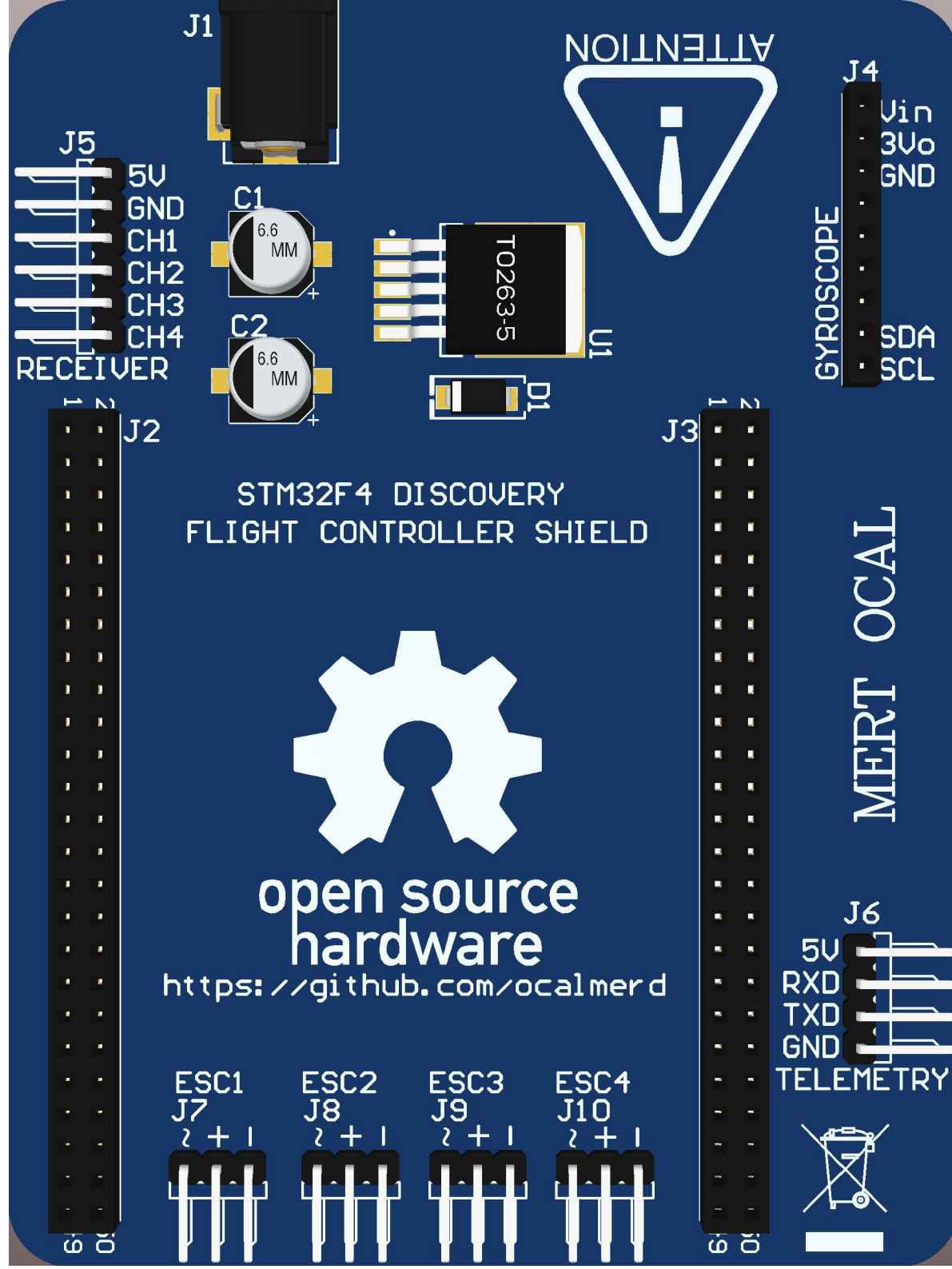
Gerber

GTO  
GTS  
GTL

GBL

GBS  
GBO

Total thickness: 0.41mm



J1



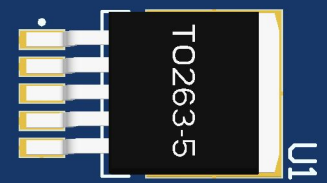
J4

Vcc  
3V0  
GND

GYROSCOPE

SDA  
SCL

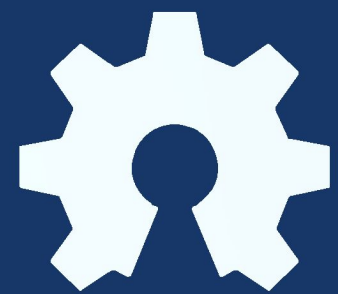
J5  
5V  
GND  
CH1  
CH2  
CH3  
CH4  
RECEIVER



U1

J3

STM32F4 DISCOVERY  
FLIGHT CONTROLLER SHIELD



open source  
hardware

<https://github.com/ocalmerd>

MERT OCAL

J6

5V  
RXD  
TXD  
GND  
TELEMETRY



ESC1  
J7  
- + GND

ESC2  
J8  
- + GND

ESC3  
J9  
- + GND

ESC4  
J10  
- + GND

