

# bitBOX HW Release

**Project**

**R2C2 - RepRap CncController**

**Revision**

**1.1P**

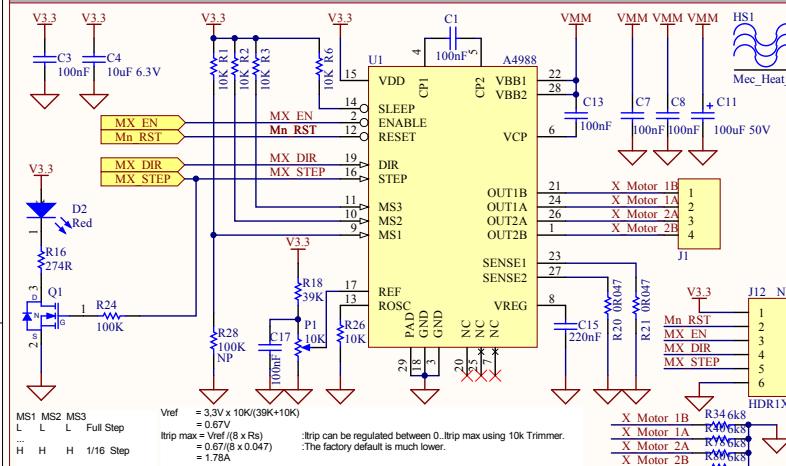
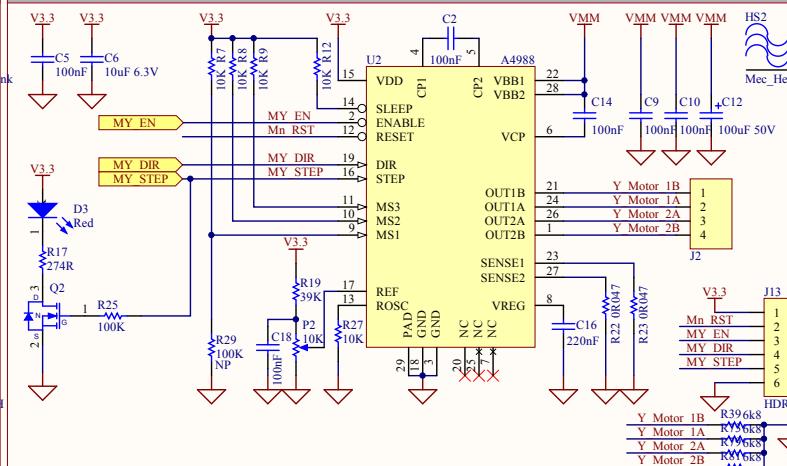
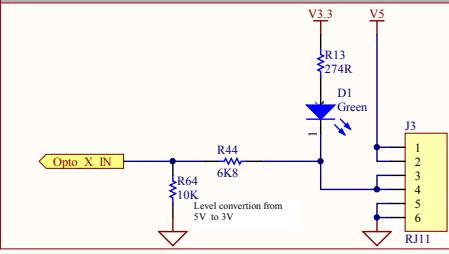
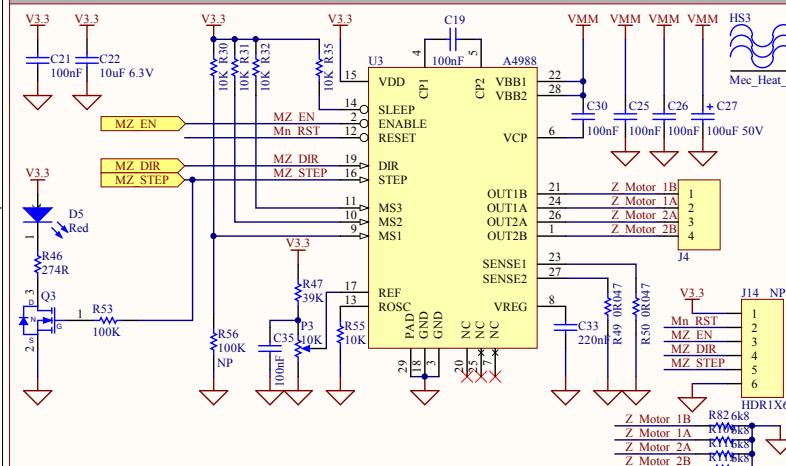
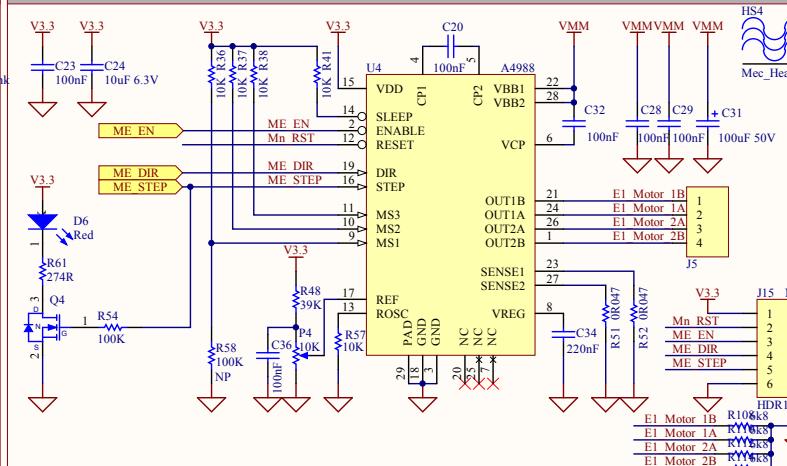
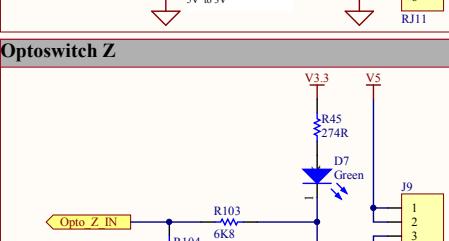
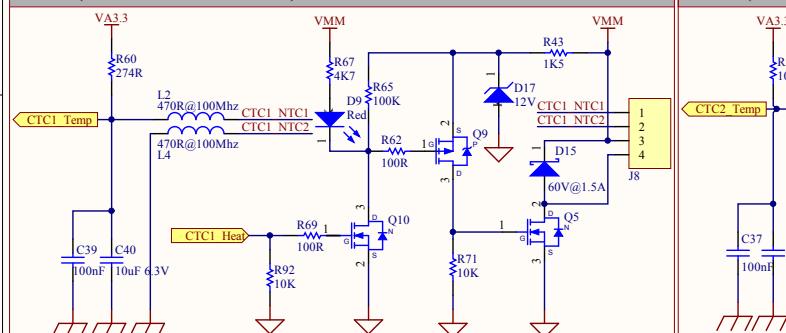
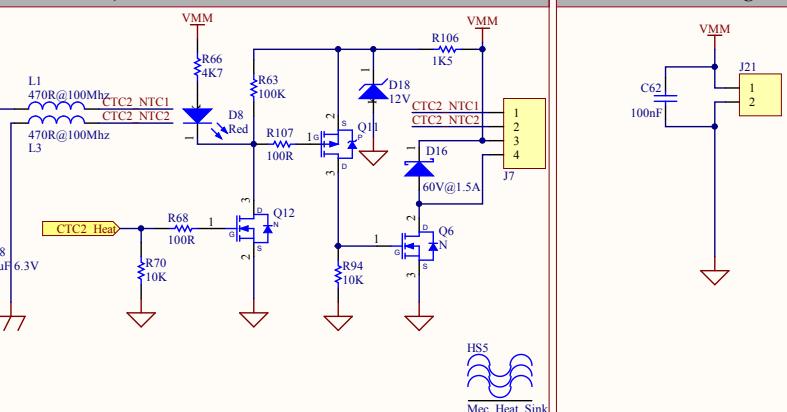
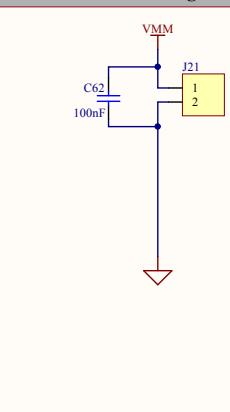
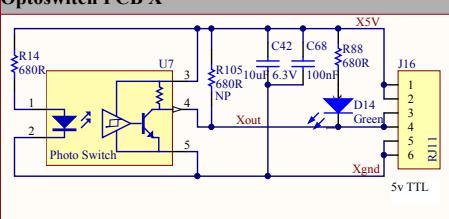
**Date**

**27/07/2011**

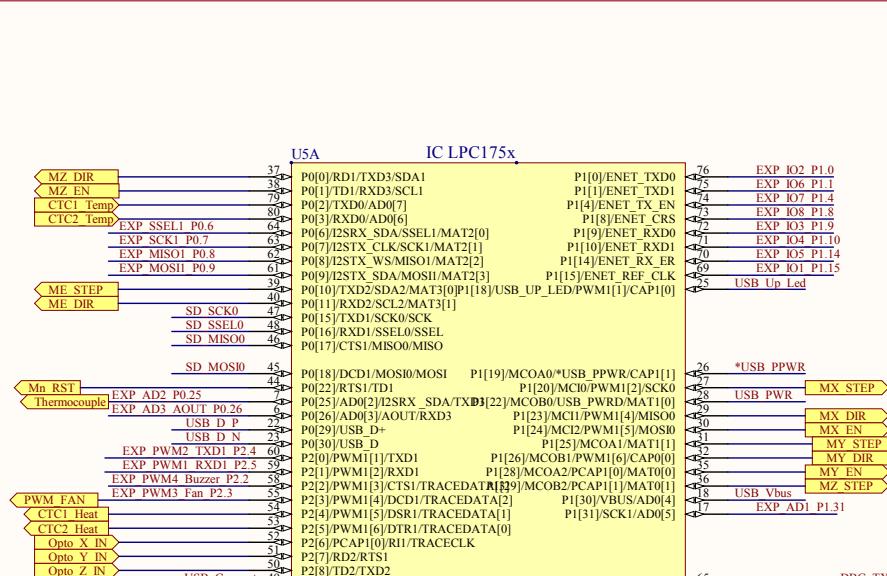
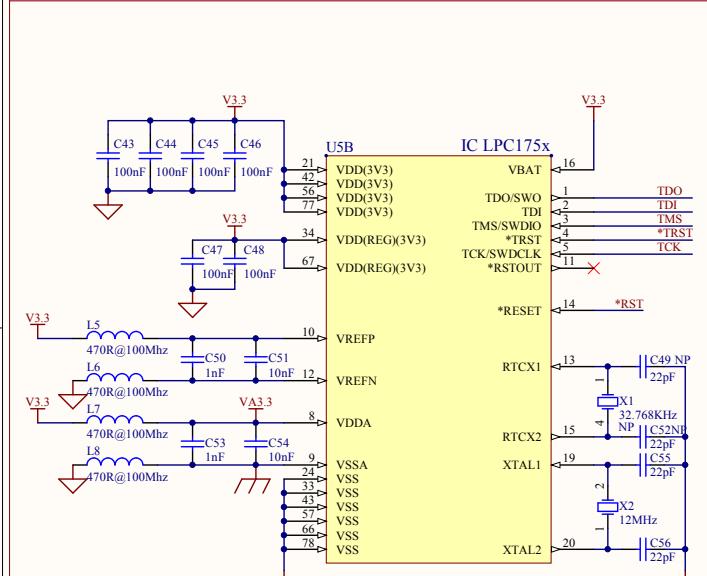
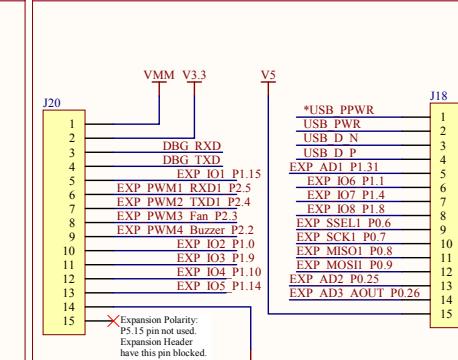
**License**

**Creative Commons BY-NC-SA**

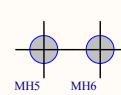
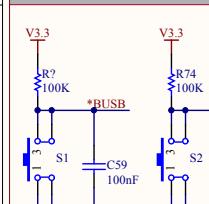
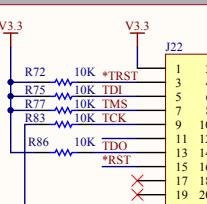
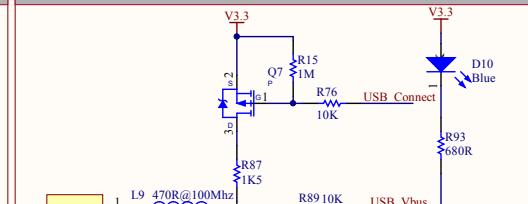
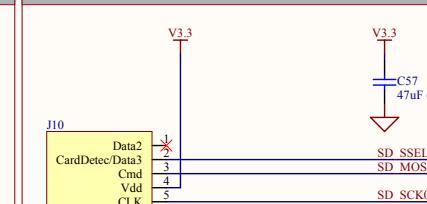
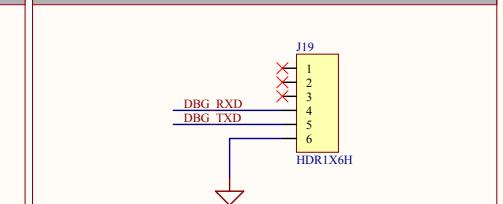
Title		
<b>R2C2 - RepRapCncController</b>		
Size	Number	Revision
A3	<b>License</b>	Creative Commons BY-NC-SA
Date:	27-07-2011	Sheet1 of 2
File:	W:\Sheet_FrontPage.SchDoc	Drawn By: FMendes75@gmail.com

**Motor X****Motor Y****Optoswitch X****Motor Z****Motor Extruder 1****Optoswitch Y****CTC#1 (Extruder 1 NTC & Heat)****CTC#2 (Table NTC & Heat)****Fan for Driver Cooling****Optoswitch PCB X****Title: R2C2 - RepRapCncController**

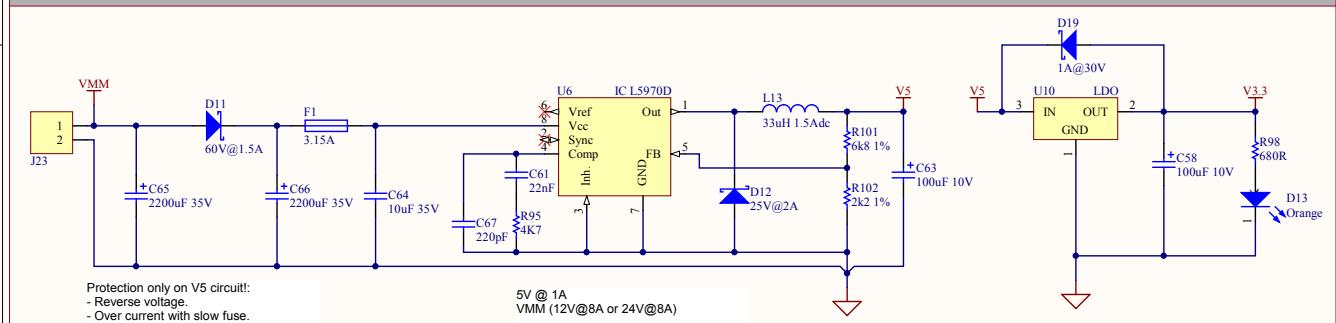
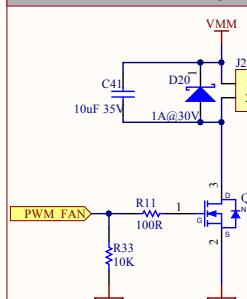
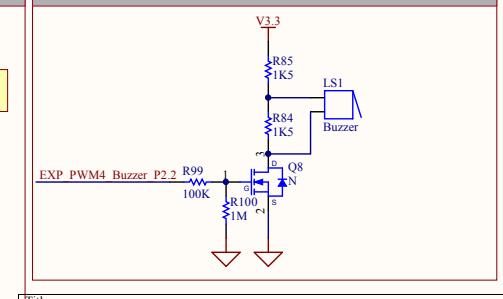
Size	Number	Revision
A3		
Date:	Creative Commons BY-NC-SA	V1.1P
27-07-2011		
File:	Sheet 1.SchDoc	Sheet 1 of 2
		Drawn By: FMendes75@gmail.com

**Processing****Expansion**

There are several functions on Expansion:  
 -IO pin can be configure for Ethernet or UART  
 -PWM  
 -ADC  
 -AOUT (DAC)  
 -SPI  
 -SSEL  
 -SCK  
 -MISO  
 -MOSI  
 -USB

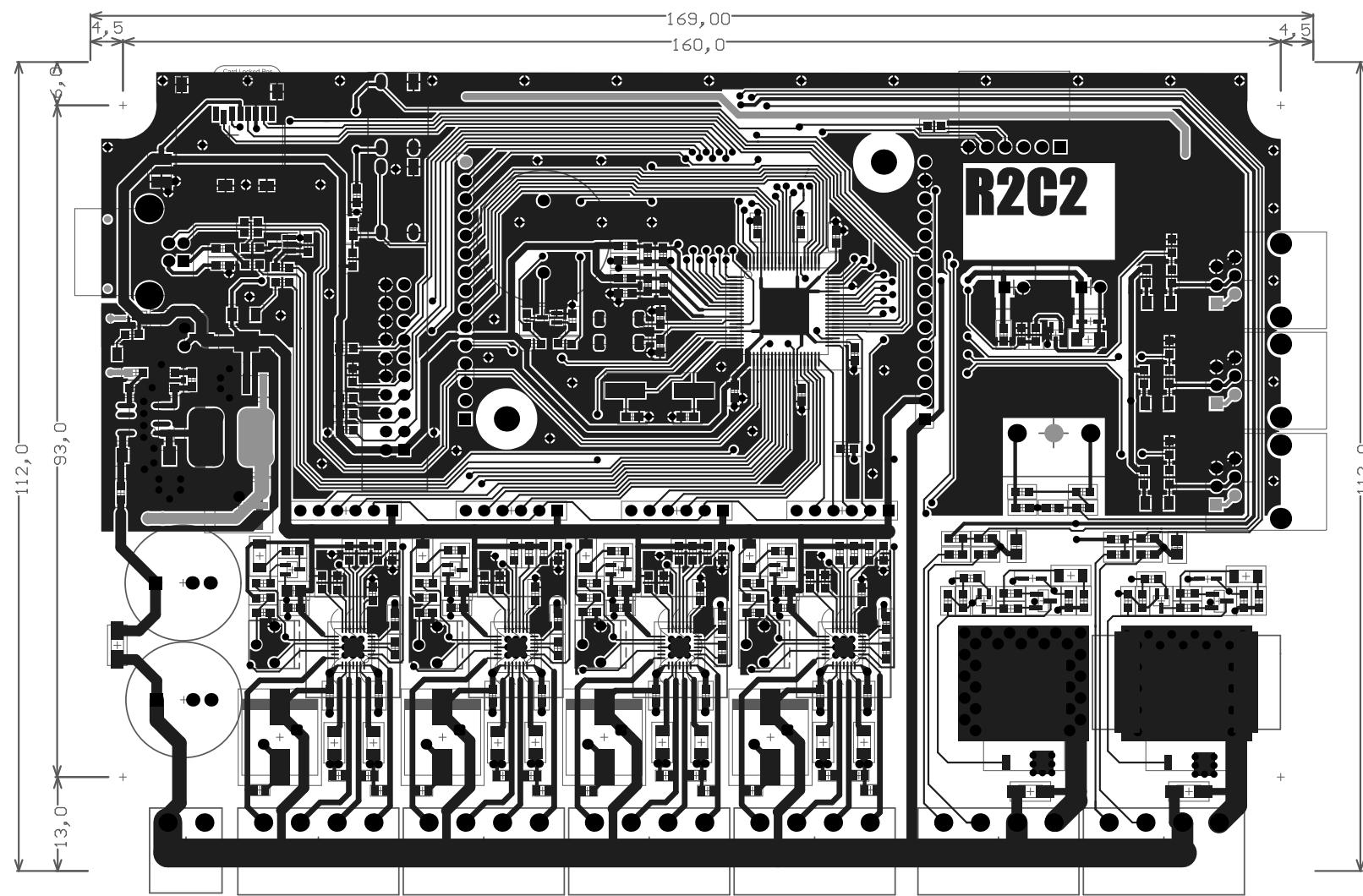
**Reset & Soft USB Boot****JTAG****USB Client****SD Card****Debug UART**

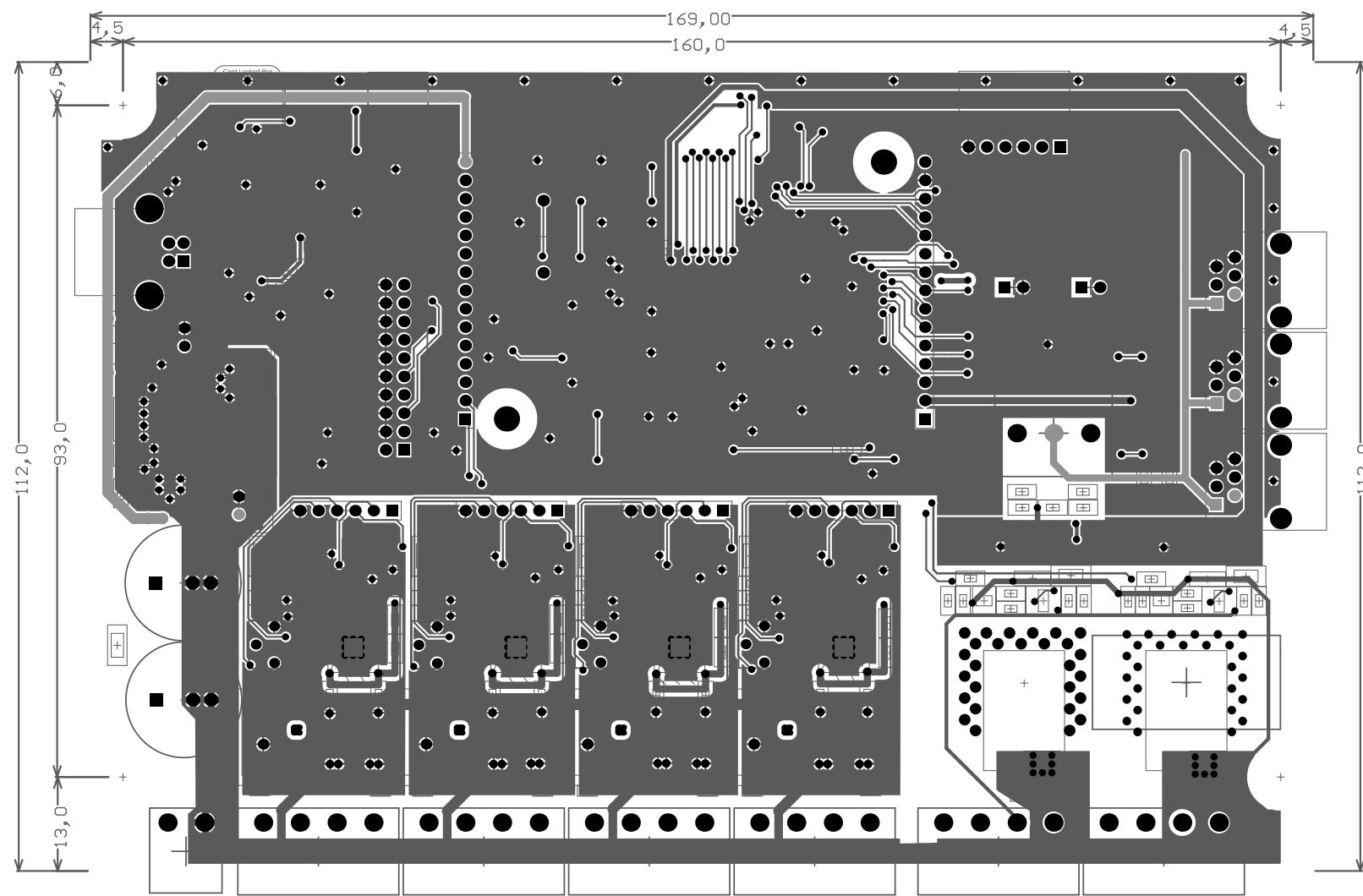
Serial Debug Port.  
 TTL 3.3v  
 Compatible with FTDI Cable

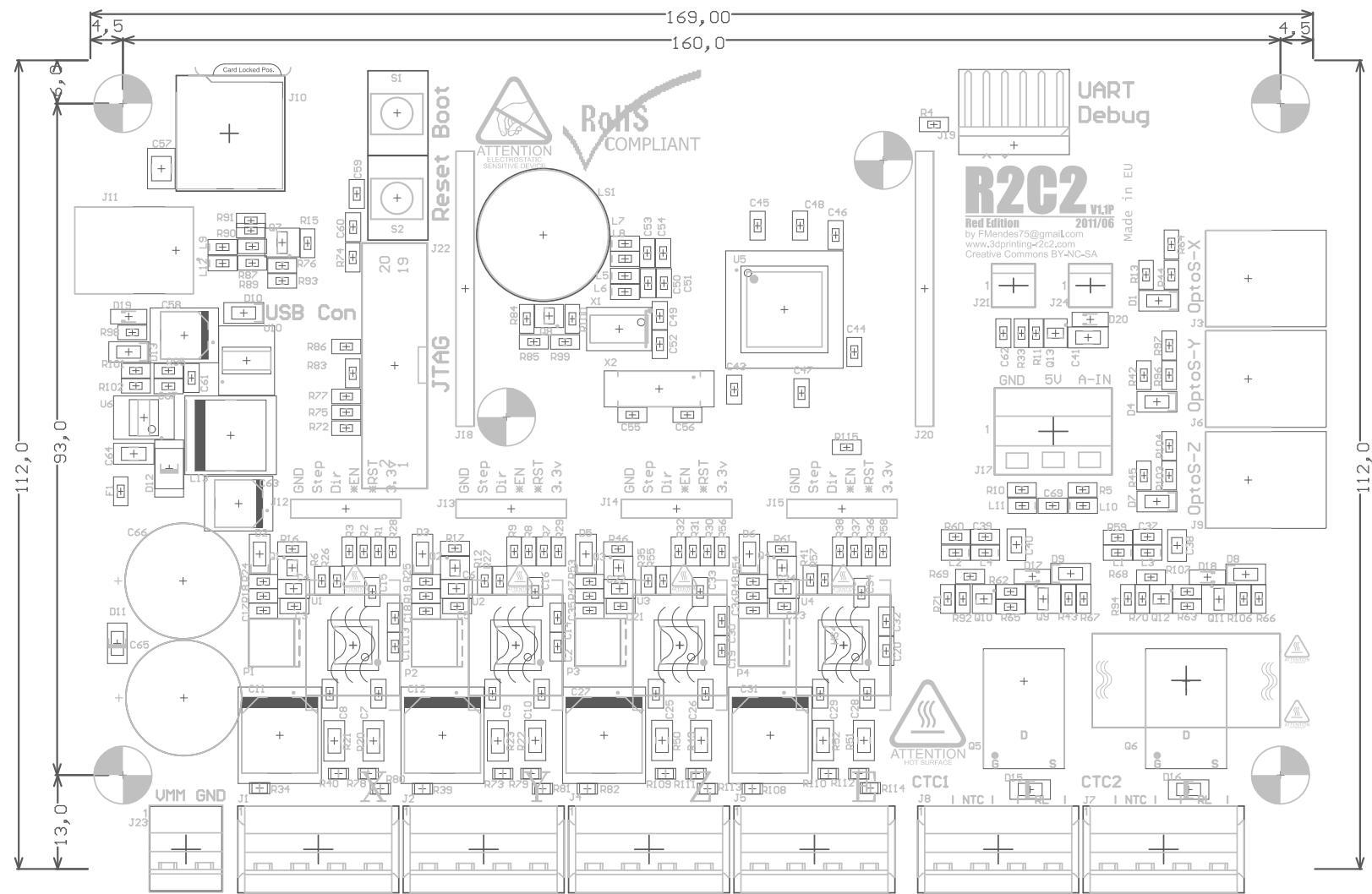
**Power****Fan for Extruder Cooling****Buzzer**

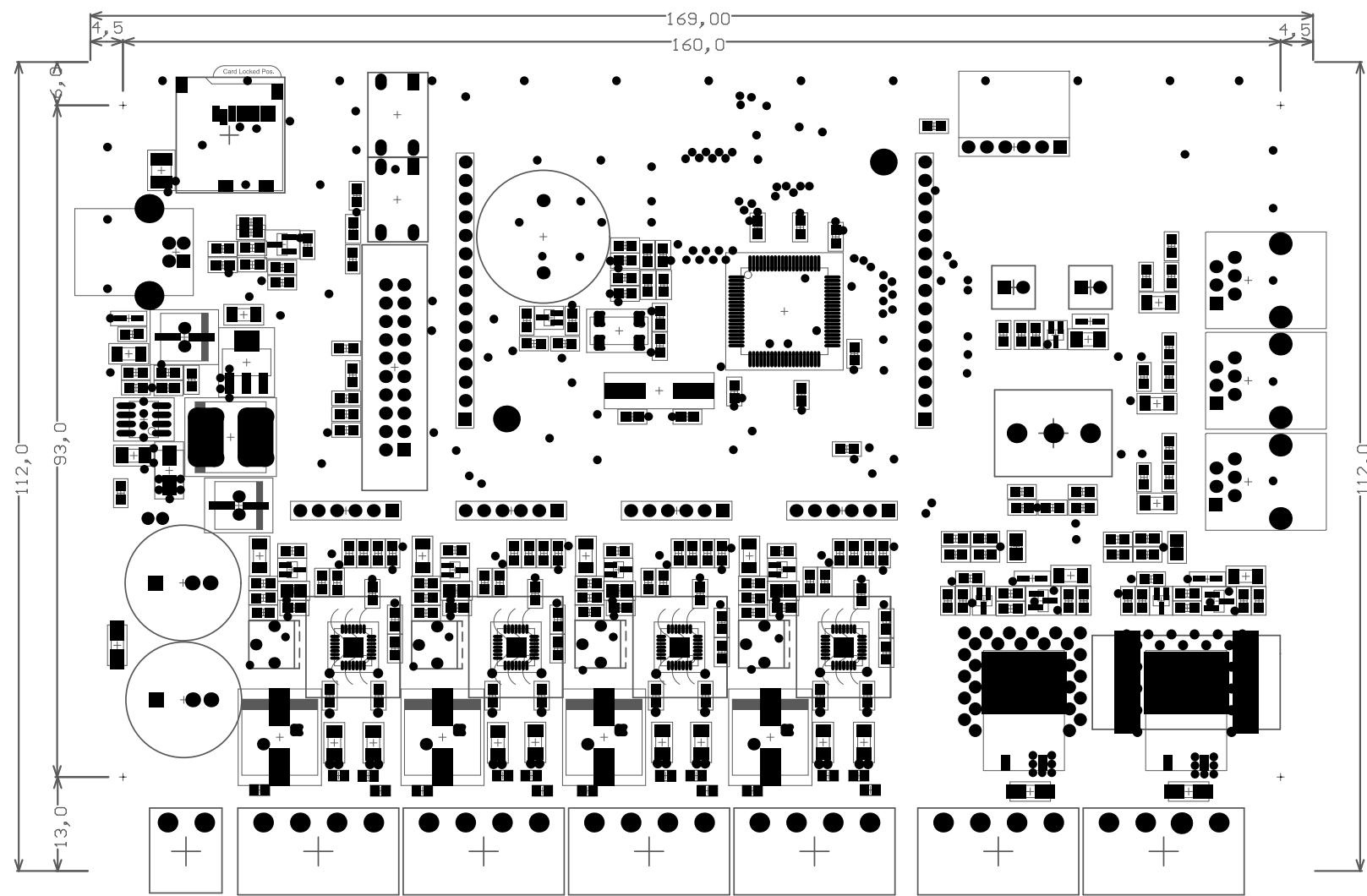
Title: **R2C2 - RepRapCncController**  
[www.3dprinting-r2c2.com](http://www.3dprinting-r2c2.com)

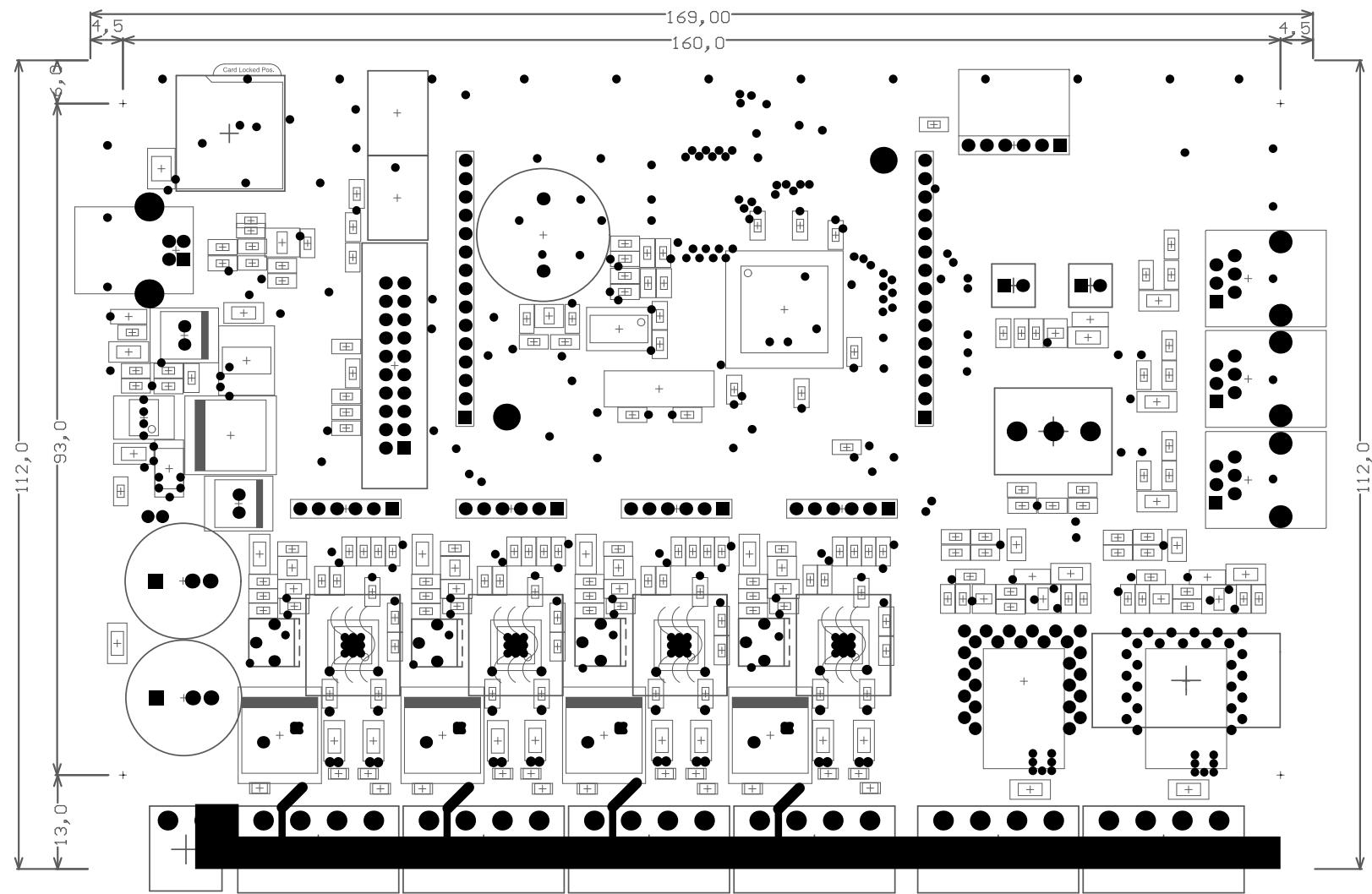
Size	Number	Revision
A3		V1.1P
Date:	27-07-2011	Sheet2 of 2
File:	\Sheet 2.SchDoc	Drawn By: FMendes75@gmail.com

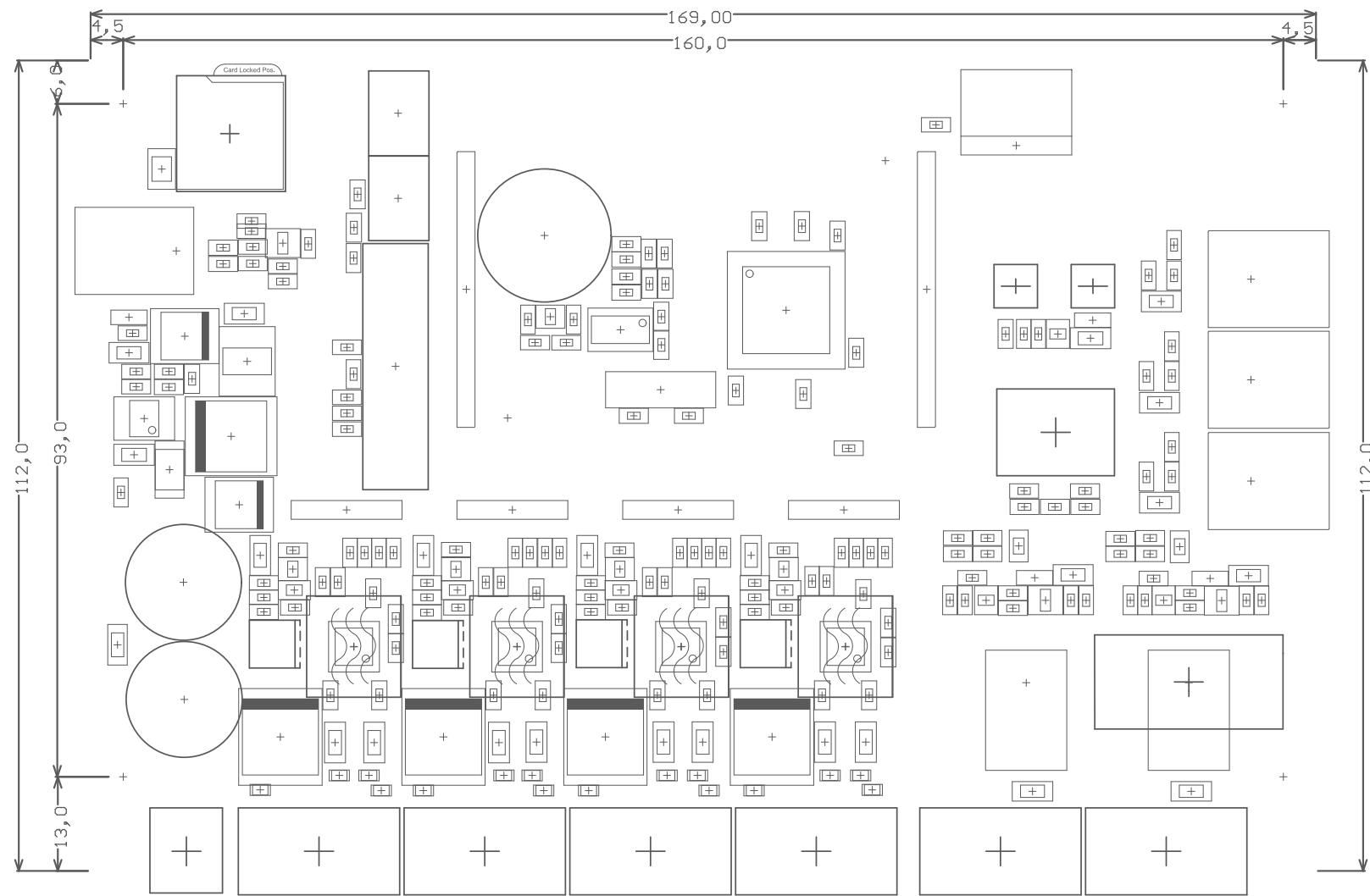


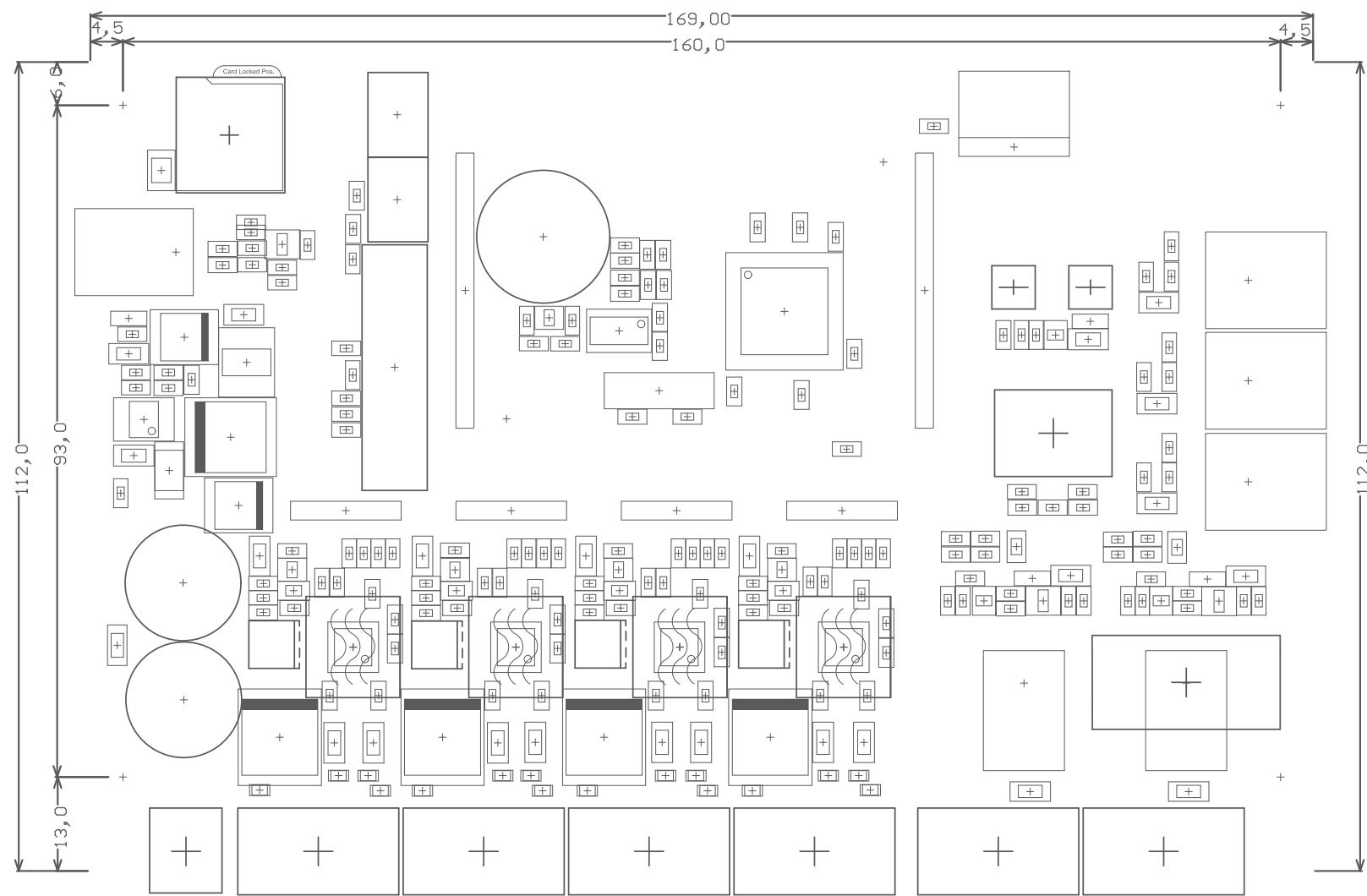


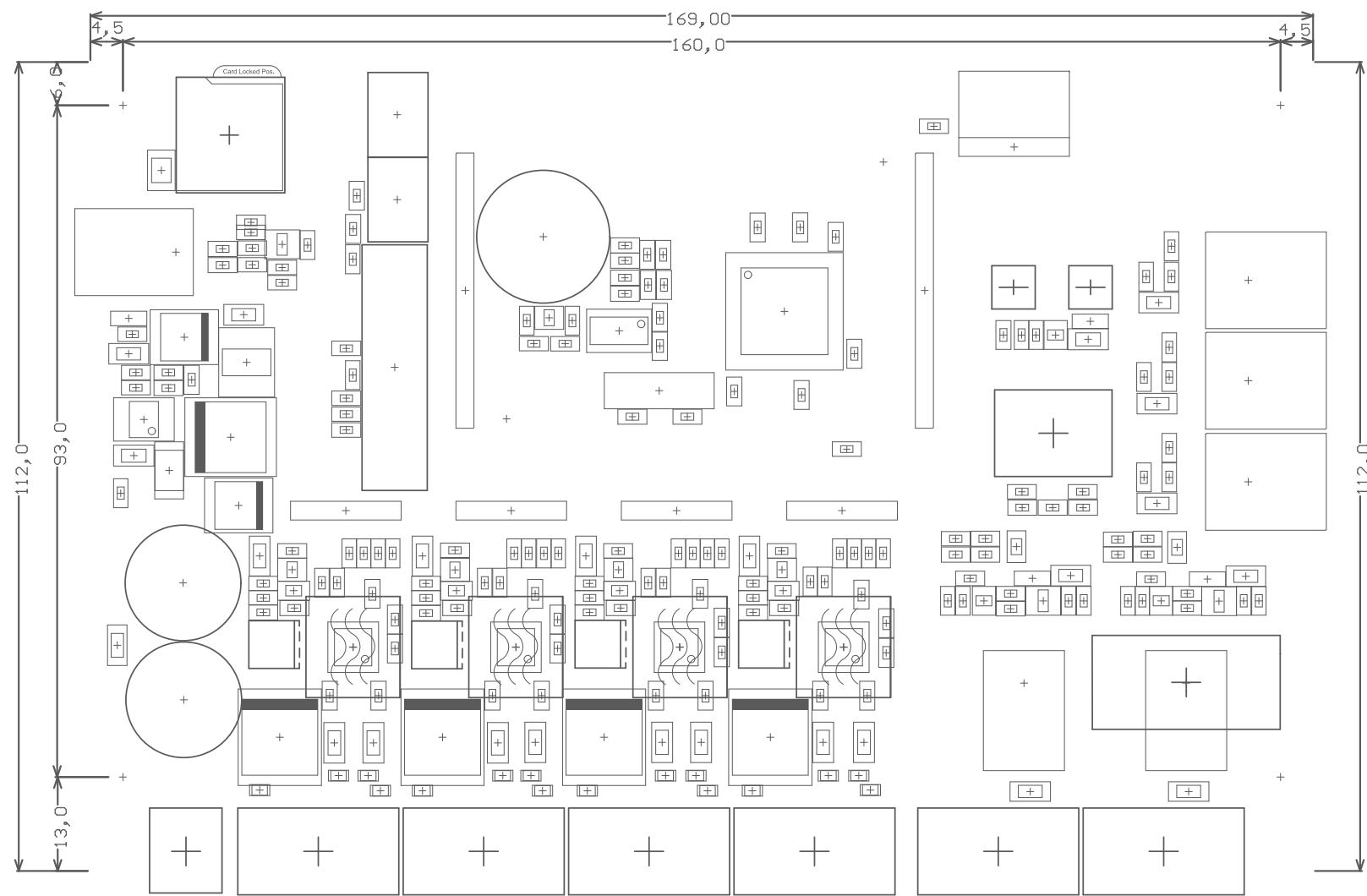


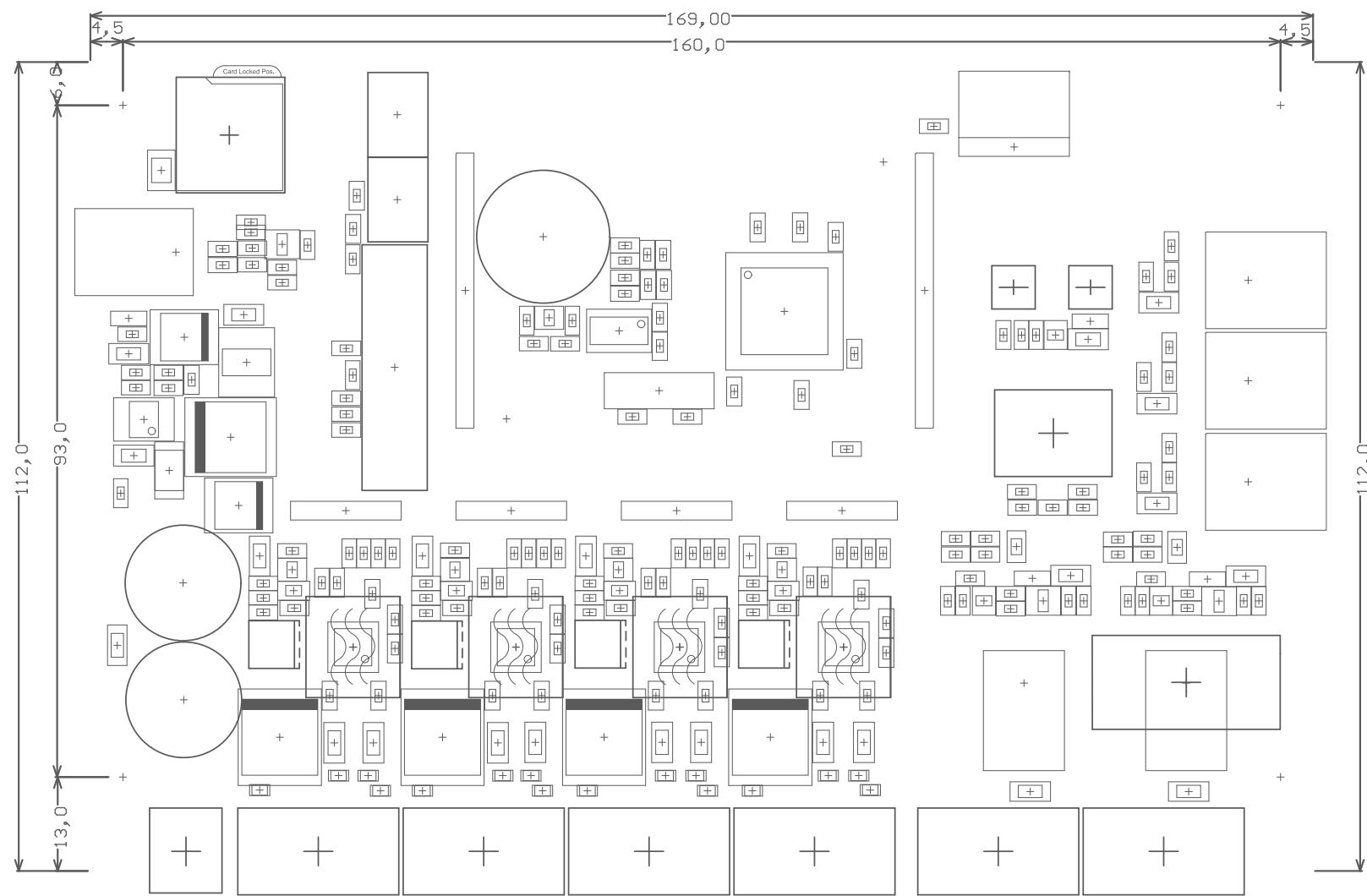


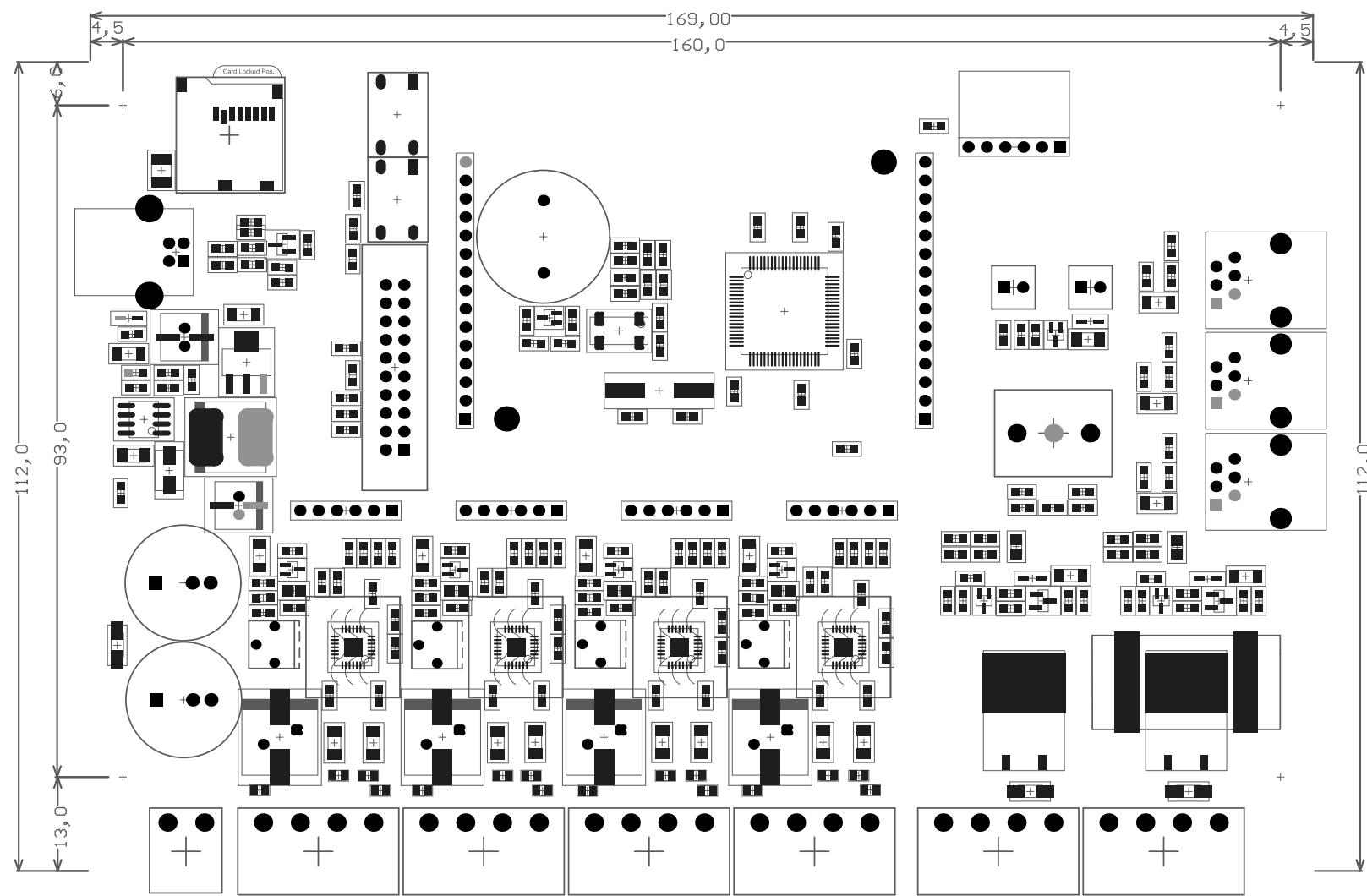


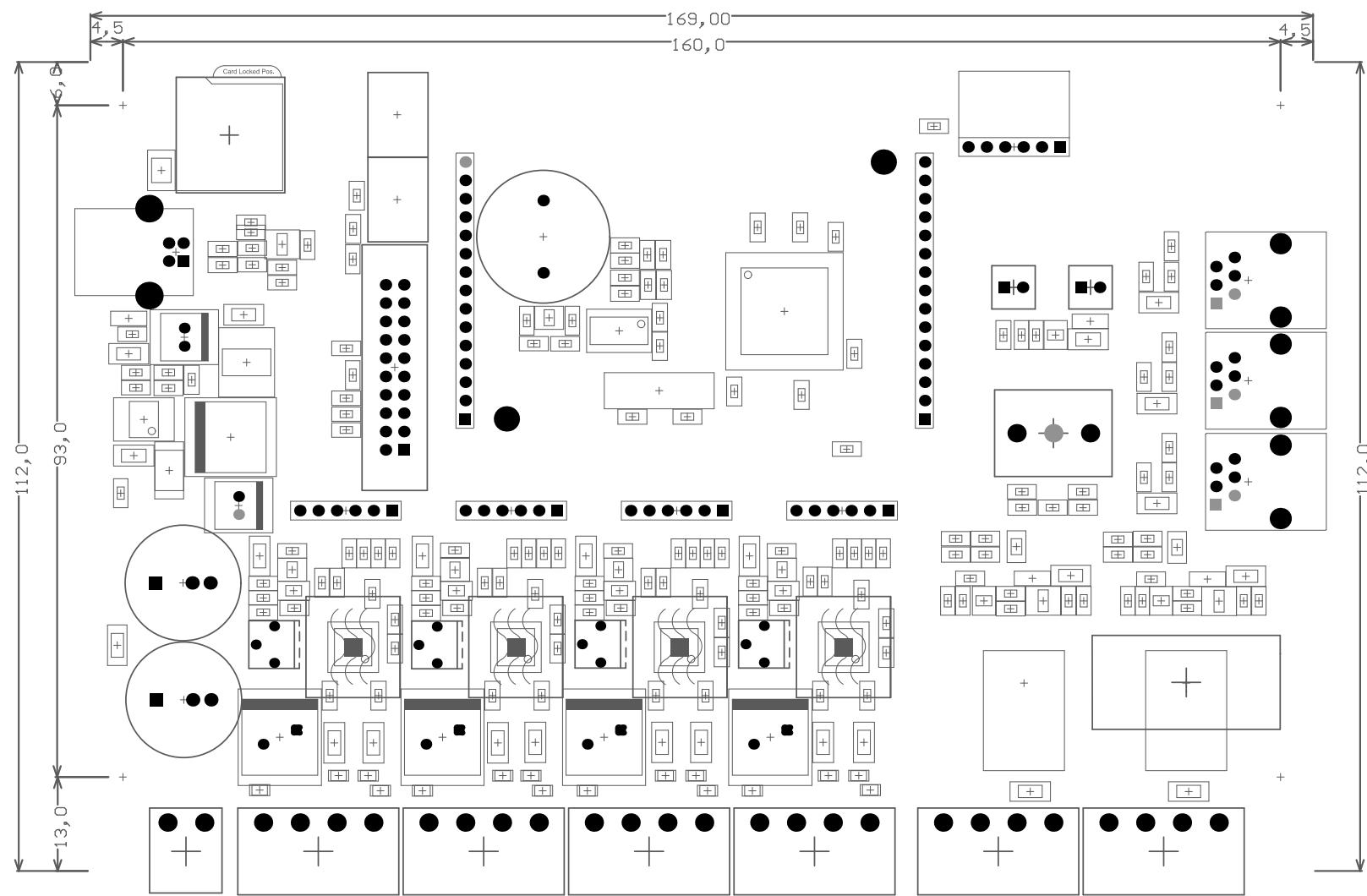


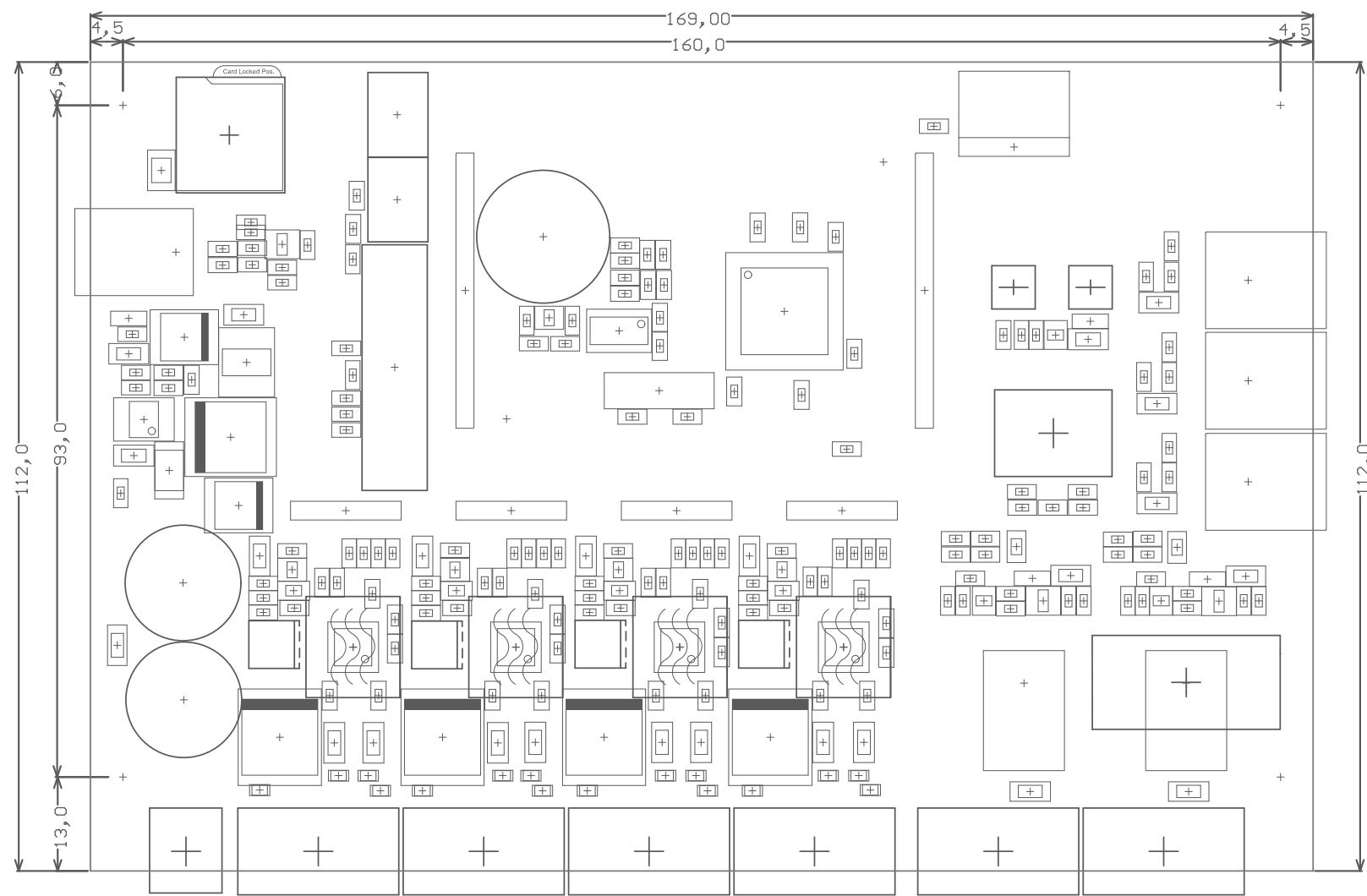


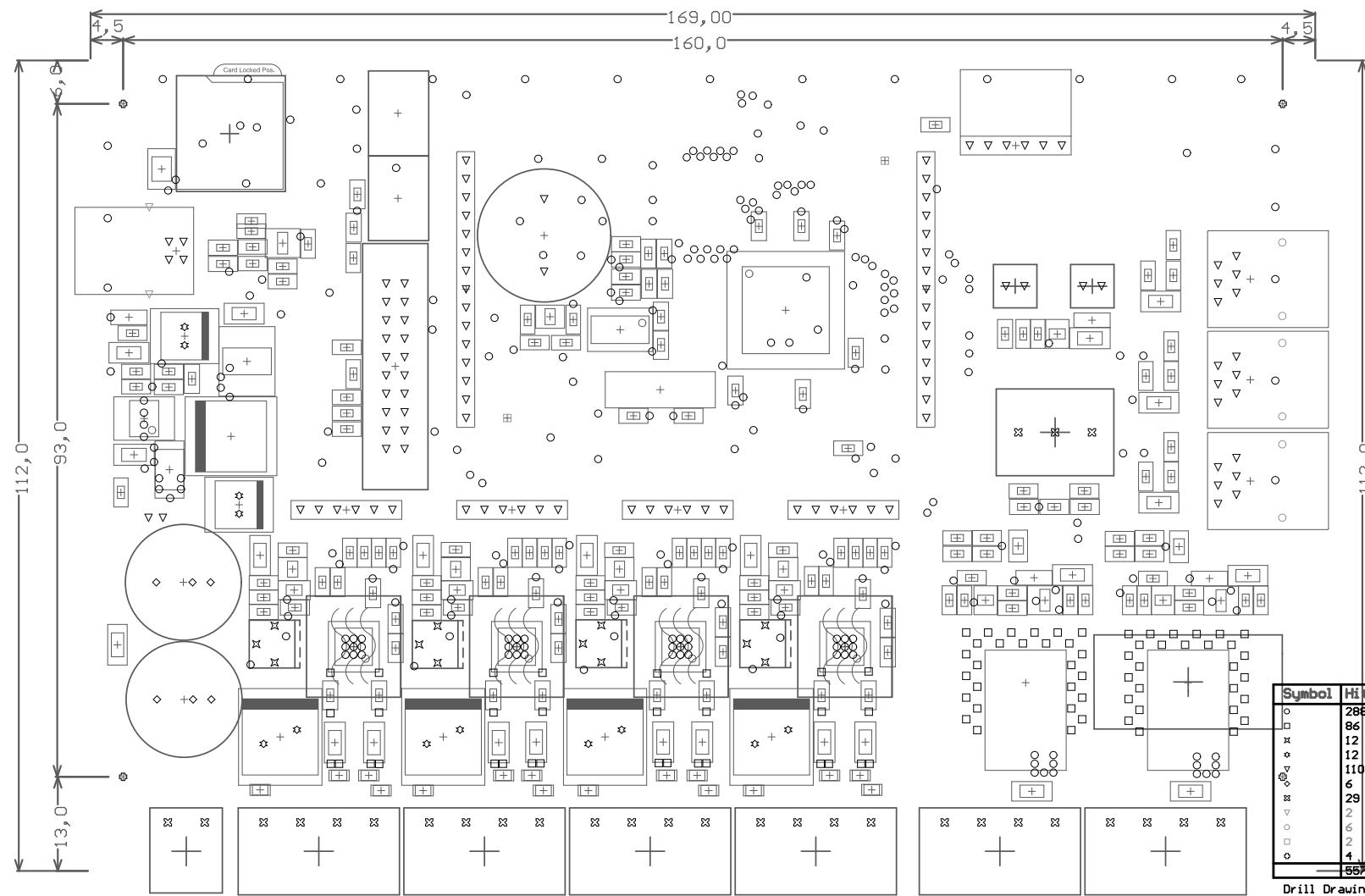












Symbol	Hole Count	Tool Size	Plated	Hole Type
○	288	0.4mm (15.748mil) 0.6mm (23.622mil)	PTH	Round
□	86	0.8mm (31.496mil)	PTH	Round
×	12	0.9mm (35.433mil)	PTH	Round
+	12	1mm (39.37mil)	PTH	Round
○	110	1.1mm (43.307mil)	PTH	Round
□	6	1.3mm (51.181mil)	PTH	Round
▽	29	2.3mm (90.551mil)	PTH	Round
▽	2	3.25001mm (127.953mil)	NPTH	Round
○	6	3.4mm (133.855mil)	PTH	Round
□	2	3.5mm (137.795mil)	NPTH	Round
<b>Total</b>		<b>557</b>		

