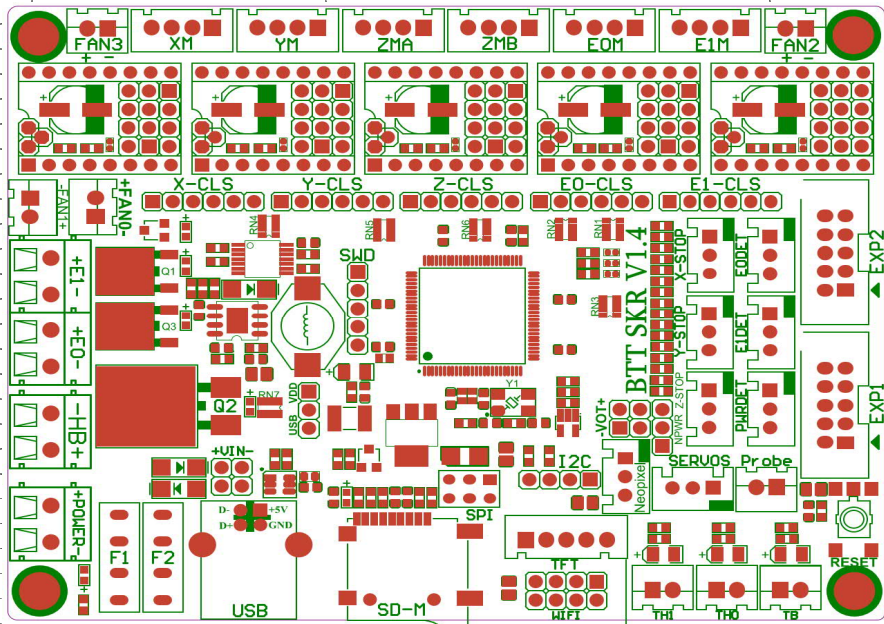


## Marlin 2.0.5.3 Settings for BIGTREE SKR 1.4\_Turbo, TMC5160 to drive Ultimaker UM2+ 3D Printer

Required Hardware					this sheet version:	0.2	added info about removing R25, R26
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1	BTT SKR 1.4 Turbo			
4	TMC5160 Stepper drivers			
1	BTT DCDC Power Module for SKR 1.4			
1	PT100 Pre-Amplifier (Ultimaker Style), 3 channel, must use VDD = 3.3 VDC (DIY)			
1	MOSFET Adapter Board to run Hotend Fan off of SERVO connector (DIY)			

What will these Mods do?									
	Enable flicker-free dimmable Case Lighting, using the original Ultimaker Case LED-Strips								
	enable PWM-controlled Parts Fan								
	enable PWM-controlled 5VDC for use with Hotend Fan								
	increase Bed-Heater and Hotend-Heater PWM to 60 Hz to smoothen power consumption (note: you must use PID for Bed Heater). This improves print quality.								
	enable utlicontroller display and Clickwheel+LEDs (as published by Anthrix here:...)				<a href="https://community.ultimaker.com/topic/30786-ultimaker-wi-th-skr-14/">https://community.ultimaker.com/topic/30786-ultimaker-wi-th-skr-14/</a>				

[illegible][illegible]

Connector	Connect what:	
TH0	PT100 Pre-Amp, Hotend	
TB	PT100 Pre-Amp, Heater-Bed	
SERVO	HOTEND-FAN (5 VDC), via MOSFET Adapter Board	