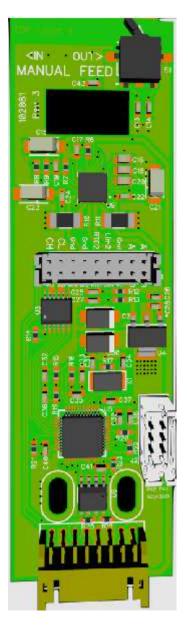
# **Hyrel3d Custom Head SDK**

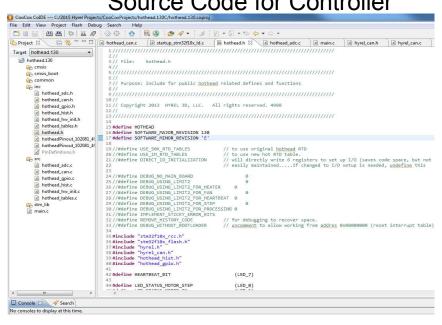
•



#### St-Link Programmer



#### Source Code for Controller



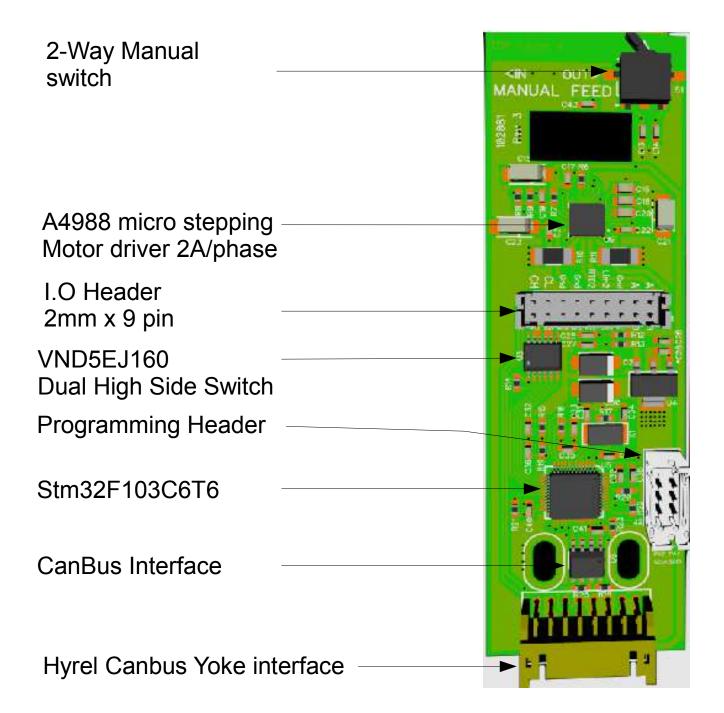
#### PB12 PB13 I FD OT PA2 PB14 VKU PB15 VDD, >+3.3V Α8 ⇒GND STE A10 A11 A12 PA13 VDD U5 8 ED\_ ED\_ 9

#### Source on Usb Drive

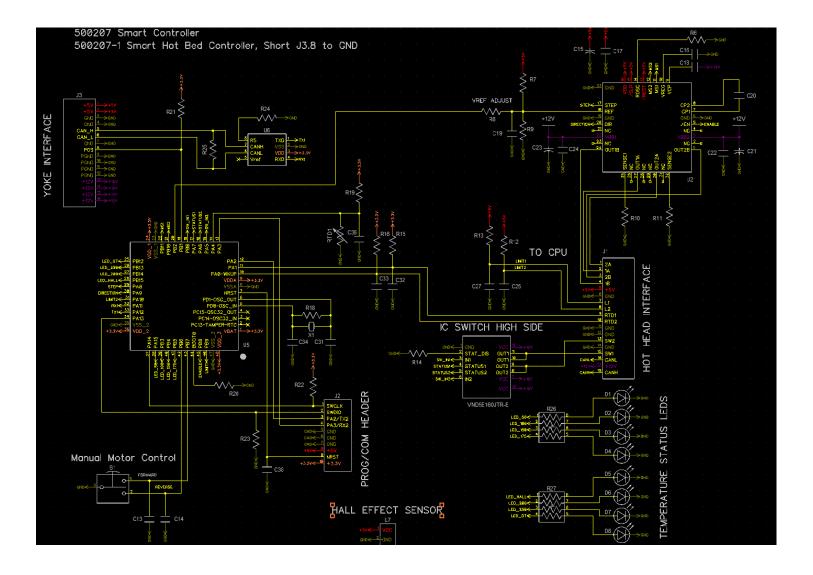


#### **Full Schematic**

Specifications: Stm32F103C6T6, (C8T6 on request), 72MHZ 32k flash, 10k ram VNDE150 High-side switch, up to 3 amps each @ 12 V Micro Stepping motor driver, A4988, Weight 13 grams. Power supply, +5/ +12 up to 4 amps max Interface, CanBus or TTL or serial



### Schematic



## **Theory of Operation:**

### Using IDE:

CooCox is a open IDE based upon Eclipse, Programmers that have used Eclipse or Visual Studio Will have little problem getting going. We recommend using the many forums online When trying to figure out programming questions, Each SDK comes with 4 hours DIRECT support From One of our Staff Programmers.Do NOT hesitate To email or Call us.

### Tips on Programming custom functions.

Never put blocking code inside Interrupt service routine. Every ISR must execute in ½ the minimum Slice time, To insure that all task will execute reliably. If your ISR is to long, break it up into 2 task.