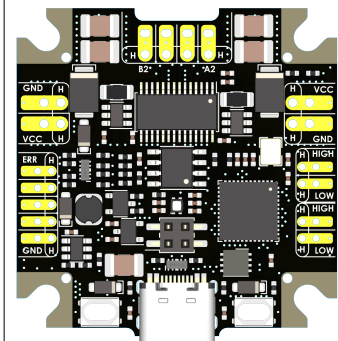
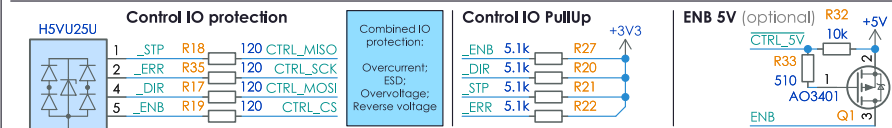


Design Keynotes

- Design separated to power and logic sections.
- The power section consists of the driver, necessary circuitry, reverse polarity protection, overcurrent protection, and overvoltage protection.
- All components have a minimum of 20% voltages margin allowing them to withstand temporary voltage spikes up to 60V without any damage.
- The analogue power supply has single connection point, with a 100μF bypass capacitor for power stabilization and a 100nF bypass near each consumer.
- CAN-Bus and POWER connectors are interconnected, forming a Daisy Chain topology for simplified connection of multiple drivers.
- Each POWER connector has a 2.5A current limit for safe operation.
- All interfaces are protected against electrostatic discharge, overvoltage, and reverse polarity.
- CTRL additionally has protection against over currents at rated voltage.
- CAN-Bus and CTRL interfaces are compatible with 3.3V and 5V logic levels.



Control connector		Compatible with 3.3V and 5V logic		Avoid reverse polarity		It is possible to power the digital part via the ENB pin when 5V is applied. However, this also means that the EN control must be either Open-Drain or connected via a current limiting resistor	
1	ENB	2	ENB	3	DIR	4	ERR
5	STP	6	STP	7	STP	8	ERR
9	ERR	10	ERR	11	ERR	12	ERR



Title: CLN17 V2 Closed-Loop Stepper Motor Driver

More information on <https://creapunk.com/clin17>

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