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COMPACT.

QUIET.

D-FIN™

Technical Specifications



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V1.250108

HYDROMEA

D-FIN™

D-FIN™ takes BLDC motor control to a new level. The D-FIN™ controller is designed, developed, and built in Switzerland to offer unmatched compact power and precision for DISKDRIVE™ thrusters and other brushless permanent magnet DC (BLDC) motors. This advanced controller brings smooth, silent, and efficient performance to your motors. It can also be stacked on a proprietary backplane to optimise space constraints and reduce cabling. Multiple digital interfaces provide flexibility to integrate D-Fin into your system with ease. D-FIN™ can be controlled and monitored via RS485 serial bus, CAN bus, USB-C or PWM.



SYSTEM SPECIFICATIONS

Dimensions (LxWxH)	83 x 62 x 12 mm (3.3 x 2.4 x 0.5 in)
Weight	80 g (2.8 oz)
Input Voltage	10 – 36 V
Maximum Current	25 A
Motor Interface	3-phase BLDC

SYSTEM FEATURES

Data Bus Interface	RS485 / CAN (configurable)
	USB interface Virtual serial port over USB
Protocol: MavLink v1.0	PWM interface 1 ms – 2 ms on-period (neutral at 1.5 ms)
Communication Modes:	0: hall-sensor trapezoidal 1: hall-sensor FOC 2: sensorless trapezodial 4: sensorless FOC Self-calibration mode
Connector	SubConn Circular 8 pins DBH8MTI

