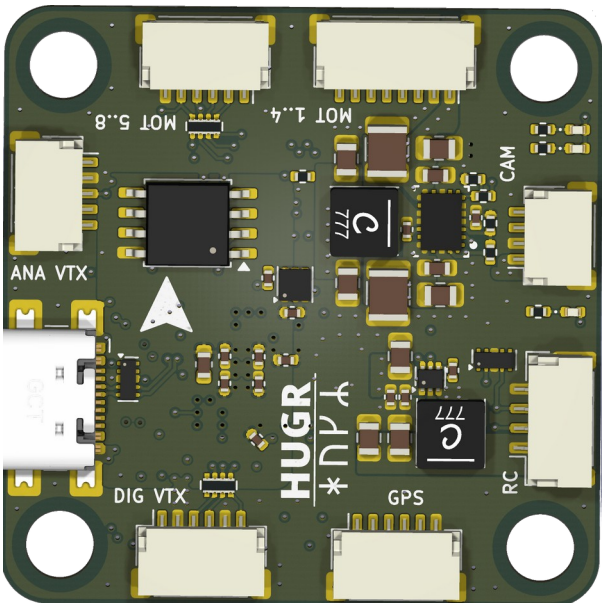
Falkr H1

Flight Controller



The Falkr H1 is a Swedish designed and produced flight or vehicle controller powered by the STM32G474 microcontroller. Built for simple integration into the Betaflight framework.

- Robust ST Cortex-M4
- ICM-45686
- Up to 16MiB black box/logging
- Support for Digital and Analog video transmission

Two BEC circuitry, one at 12V @ 3A and one at 5V @ 1A allows for powering external peripherals such as VTXs, radios and lights.

Support for both digital and analog video transmission systems.

Up to 8 motors or 4 motors and 4 servo outputs.

Applications

- FPV Multicopters
- UAVs, UGVs and USV
- Robotics

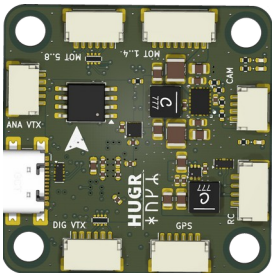
- Support for Digital and Analog VTX
- 12S BEC for 5V and 12V
- 6 UART serial ports
- 16MiB black box

Customer specific customization available on request.

Innovative autonomous drones and cyberphysical systems

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Falkr H1
Flight Controller



Platform Specifications

System

MCU: ST STM32G474
Memory: 512kB Flash 128kB RAM
IMU: TDK ICM-45686
Barometer: Bosch BMP581
Compass: ST IIS2MDC
PWM channels: 8 PWM/DSHOT Channels
Power: 3 – 12S VBAT
Serial: 6 UARTs
Logging/Blackbox: 16MiB Flash

Interface

Battery input: 16-54V
Connectors: JST SH-series
Interfaces: UART, I^2C, GPIO, DSHOT, PWM,
Mounting: 30.5mm x 30.5mm M4 /M3 with damper

Variant	Length	Width	Height	Weight
Falkr H1-A	38mm	38mm	10mm	~15g

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