



AeroCogito H7-Digital (FCH701)

NDAA-Compliant / Blue UAS - Flight Controller

Key Features

- **NDAA-Compliant Design** - Suitable for government and commercial applications
- **Optimized for Companion Computers** - Dedicated high-speed UART for Raspberry Pi, Nvidia Jetson integration

Specifications

Processor: STM32H743, 480MHz, 1MB RAM, 2MB Flash

IMU: ICM-42688-P 6-axis with isolated power rail and enhanced filtering

Barometer: DPS368

OSD: Digital HD only (OpenIPC, Walksnail, DJI, HDZero) **Note:** No on-board analog OSD

Size: 41mm x 41mm (30.5mm mounting pattern)

Power System

- Supports 3S to 6S batteries (11.1V - 25.2V)
- 5V/2A BEC for accessories
- 10V/2A BEC for VTX with software-selectable on/off control

PWM Outputs

- 8 Motor Outputs with DShot support
- 2 Servo Outputs

Connectivity

- **Betaflight Standard JST-SH Connectors**
- Dedicated connections for:
 - GPS with compass support
 - Companion Flight Computers
 - RC receivers (SBUS/CRSF/ELRS)
 - Digital VTX systems
 - Servos

Additional Features

- SD card for blackbox logging and firmware updates
- ESC telemetry support with analog voltage/current sensing
- Three status LEDs (Blue, Green, Amber)
- USB Type-C connector
- Standard 30.5mm x 30.5mm mounting with M3 holes

Supported Firmware

- ArduPilot:
(Board ID: AP_HW_AeroCogito-H7Digital)
- Betaflight:
(Target: AEROH7DIGITAL)

Purchase & Support

MSRP: \$99.00

Website: aerocogito.com/store/p/h7-digital

Support: support@aerocogito.com

Documentation: [Full technical documentation available](#)