

Link do produktu: <https://www.nobshop.pl/kontroler-lotu-fc-holybro-kakute-h7-bt-p-3172.html>

Kontroler lotu FC Holybro Kakute H7 BT

Cena brutto	389,99 zł
Cena netto	317,07 zł
Dostępność	Aktualnie niedostępny
Czas wysyłki	1 - 3 dni
Producent	Holybro

Opis produktu

Kontroler lotu FC Holybro Kakute H7 BT

Description:

The Holybro Kakute H7 Flight Controller is full of features including integrated Bluetooth, dual plug-and-play 4in1 ESC ports, HD camera plug, barometer, OSD, 6x UARTs, full Blackbox MicroSD card slot, 5V and 9V BEC, easy soldering layout and much more.

The Kakute H7 builds upon the best features of its F7 predecessor and further improves on hardware components and layout. With the additional integrated Bluetooth chip onboard, you can perform Betaflight configuration and tuning wirelessly on your phone with the SpeedyBee Android & iOS App. The Kakute H7 is DJI HD ready. It has an easy plug-and-play port with an on-board 9V regulator designed to power your HD video transmitter like DJI/Caddx FPV Air Unit & Caddx Vista while supporting analog system.

It has 6x dedicated UART ports with built-in inversion for peripherals (UART2 is used for Bluetooth telemetry), along with a full MicroSD Card slot for virtually unlimited Blackbox data logging. Dual plug-and-play 4in1 ESC connectors, allowing easy plug-and-play support for x8 Octocopter configuration and keeping it simple and clean. The integrated BetaFlight OSD makes it easy to display important information on your FPV display like battery voltage, flight time, warnings, RSSI, smart audio features and more. It is also ready for autonomous flight with the on-board barometer. There are LED & buzzer pad, I2C pad (SDA & SCL) for external GPS/Magnetometers

Specification:

- MCU - STM32H743 32-bit processor running at 480 MHz
- IMU - MPU6000
- Barometer - BMP280
- OSD - AT7456E
- Onboard Bluetooth chip - ESP32-C3
 - SpeedyBee IOS & Android App Compatible
 - Note: The Bluetooth onboard is set to automatically turn off when the flight controller is unlocked (arm) and turn on automatically when the flight controller is locked (disarm).
- 6x UARTs (1,2,3,4,6,7; UART2 is used for Bluetooth telemetry)
- 9x PWM Outputs (8 Motor Output, 1 LED)
- 2x JST-SH1.0_8pin port (4in1 ESCs, x8/Octocopter compatible)
- 1x JST-GH1.5_6pin port (For HD System like Caddx Vista & Air Unit)
- Battery input voltage: 7V to 42V
- BEC 5V 2A Cont.
- BEC 9V 1.5A Cont.
- Mounting - 30.5 x 30.5mm/Φ4mm hole with Φ3mm Grommets
- Dimension - 35x35mm
- Weight - 8g

Firmware Targets

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- **BetaFlight:** KakuteH7 (v4.2.11 and above)
 - **INAV:** [KakuteH7 \(4.0.0 & above\)](#) SD card support will be added in 4.1.0.
 - **Ardupilot:** KakuteH7 (4.2.0 & above)

Note:

The Kakute H7 ships with [customized version of Betaflight 4.3 Firmware](#) from the factory. Using Betaflight configurator 10.7.1 or below with betaflight 4.3 might show a warning when first connected, you can upgrade the BF Configurator (once available), or ignore the warning and proceed with configuration. Kakute H7 is compatible with 4.2.11 and up. With Betaflight 4.2.11, some SD card model might be encounter an error.

Holybro K KUTE H7 Flight Controller

Overview & Wiring Diagram
 Multiple Protocols: Frsky, APM, etc.

Analog Camera: Power and camera control for analog camera configuration.

Bluetooth: Bluetooth MCU allows easy wireless control via Android & iOS. Supports Blue App, Android & iOS. Supports Blue App.

UART: UART 1, UART 2, UART 3 for UART, UART 4 for Bluetooth telemetry.

DC Fan: SDA, SCL for external I2C sensors like DHT22.

LED & Buzzer: RGB LED & Buzzer output.

Motor Output: WB 2. Easy and simple set up for both 4-Quadcopter and 6-Copter/Tricopter. (From Analog Receiver Menu to be done for all Configurations).

IMU: MPU6050.

Wing: STM32H745: Armv7-M Processor core, up to 350 MHz, more than double the speed of F7.

Barometer: BMP280. Ready for autonomous flight.

DJI/Caddx HD Connector: For DJI/Caddx HD System, does not require external ESC. Cables included.

On Screen Display: AT7140G OSD Chip, allowing graphical on-screen display.

Backbox: Full MicroSD Card slot for virtually unlimited Blackbox data logging.

REC: REC1.5A & 2V2A voltage regulators for DJI/Caddx HD system and peripheral.

Other Side: Backbox Full MicroSD Card Slot.

Dimensions: 43.5mm x 35.5mm.

Technical and Electrical Specs:

- Board Voltage: 5V
- Max. Current: 3.0A (3.0A-5.0A) (Max. 6000mA)
- Size: 37.5 x 37.5mm
- Weight: 1g

Major UART Configuration:

UART 1: Frsky (SPP)

UART 2: Bluetooth (MSP On)

UART 3: Telemetry

UART 4: Receiver (SPP) (Serial Rx On)

UART 5: ESC

Serial with 485 Silicon Greennails

Using DJI/Caddx Digital FPV System with DJI Remote Controller

Note: In order for the flight controller to send OSD information to the Air Link/Video, UART 1 needs to be set to MSP. If you are using the Receiver Controller, set Serial Rx On to UART 4. Ensure your Receiver Protocol is set to SBLUS.

Receiver Configuration:

Receiver	Configuration	Serial Rx
UART1	MSP	115200
UART2	MSP	115200
UART3	MSP	115200
UART4	MSP	115200
UART5	MSP	115200

Wiring Diagram: Shows connections for UART 1, 2, 3, 4, 5 and GND to the receiver.

Installing a Receiver (If you are not using the DJI Remote Controller)

Note: If you are not using the DJI Remote Controller, do not connect the SBLUS and GND wires. (See Diagram on the left). Follow the diagrams & instructions below to set up your own Receiver.

Receiver Configuration:

Receiver	Configuration	Serial Rx
UART1	MSP	115200
UART2	MSP	115200
UART3	MSP	115200
UART4	MSP	115200
UART5	MSP	115200

Receiver Options:

- Crossfire or Tracer:** Serial-based receiver (SPEKTRUM) - Receiver Mode: CRFP
- FSKY R-XSR:** Serial-based receiver (SPEKTRUM) - Receiver Mode: SRSLS
- FSKY R-XSR:** Serial-based receiver (SPEKTRUM) - Receiver Mode: FFSKY FPV
- CC3D:** Serial-based receiver (SPEKTRUM) - Receiver Mode: SPEKTRUM/SDS1
- Ghost Arto:** Serial-based receiver (SPEKTRUM) - Receiver Mode: SPEKTRUM/SDS2

Video Transmitter (Vtx)
 If you are not using DJI/Caddx Digital System Vtx

Wiring Diagram: Shows connections for Vtx to the flight controller.

Receiver Configuration:

Receiver	Configuration	Serial Rx
UART1	MSP	115200
UART2	MSP	115200
UART3	MSP	115200
UART4	MSP	115200
UART5	MSP	115200

GPS

Wiring Diagram: Shows connections for GPS module to the flight controller.

Receiver Configuration:

Receiver	Configuration	Serial Rx
UART1	MSP	115200
UART2	MSP	115200
UART3	MSP	115200
UART4	MSP	115200
UART5	MSP	115200

Buzzer/LED

Wiring Diagram: Shows connections for Buzzer and LED to the flight controller.

Analog FPV Camera

Wiring Diagram: Shows connections for Analog FPV Camera to the flight controller.

ESCs
 Dual Plug-and-Play 4in1 ESC Ports

Wiring Diagram: Shows connections for ESCs to the flight controller.

ESC Pinout:

- B+ Battery Positive Voltage (2S-6S)
- B- UART Pin (ESC Telemetry)
- GND Ground
- SEN Current Sensor
- M1 Motor 1 Signal
- M2 Motor 2 Signal
- M3 Motor 3 Signal
- M4 Motor 4 Signal

ESC Configuration:

- B+ Battery Positive Voltage (2S-6S)
- B- UART Pin (ESC Telemetry)
- GND Ground
- NC Not Connected
- M1 Motor 1 Signal
- M2 Motor 2 Signal
- M3 Motor 3 Signal
- M4 Motor 4 Signal

Note: For 48-Copter/Octocopter configuration, go to Amperage Meter and change the scale to 84 [1100mV/A]

Receiver Configuration:

Receiver	Configuration	Serial Rx
UART1	MSP	115200
UART2	MSP	115200
UART3	MSP	115200
UART4	MSP	115200
UART5	MSP	115200

Package Includes:

FC board *1
M3 Anti-Vibration Silicone Grommet Insert *4
JST SH 8pin 150mm cable*2
JST GHR 8pin to JST GHR 6pin 80mm cable*1 (for DJI/Caddx HD Systems)
JST GHR 6pin 100mm cable*1 (for Caddx HD Systems)

Manual:

[Kakute H7 BT Wiring Diagram](#)