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LibrePilot/OpenPilot Wiki The CopterControl, CC3D and Atom are all types of stabilizing equipment that run OpenPilot firmware. They can be configured to fly any glider from a fixed wing to an octocopter using OpenPilot's Ground Control Station (GCS) software. If you haven't installed ground control software yet, see CopterControl was the first generation board to cease production in 2012 due to the lack of gyroscopic sensors used to stabilize. The design of the board was then revised and released with an improved gyroscope sensor that is less dependent on temperature changes. This version is called CC3D, and in addition to changing the gyroscope sensor is identical to the original CopterControl. Atom is the latest edition for this family - it has full CC3D functionality, but in a smaller form factor and was available in August 2014 getfvp.com and readymaderc.com. All three of these boards are 100% compatible with the latest firmware release when upgraded to the last loader. All documentation related to the original CopterControl board applies to both CC3D and Atom boards. Weight: 8g Weight: 8g CC3D and Atom are both available with straight angle or straight outlet connectors. Weight: 4g Atom has no mounting holes. Cases designed to install and protect all dispatchers are available from a number of sources. For example, for Atom, www.readymaderc.com light feet with and without legs. The chart below summarizes how the overall CopterControl system is connected. CopterControl / CC3D / Atom have 4 ports. (click image to see full size) Servo Exit 1-6: These are PWM outlets that go for servos or ESCs. Power is usually applied through these blanks only from one of the ESCs. Positive (Vcc) and negative (Gnd) contacts are listed on this chart and board. Servo exit pin layout from the outside - zgt; land Medium - 5V - 15V Inside - qgt; MainPort signal (also formerly known as telemetry): JST-SH 4-pin. This is a serial USART whose baud rate can be adjusted through GCS. Additionally, the Futaba S.Bus receiver, Spektrum/JR satellite receiver or GPS can be displayed on MainPort. The default configuration is telemetry to connect the RF modem. FlexiPort: JST-SH 4-pin. The function of this port also depends on the configuration and can be configured for I2C or Serial. The default configuration does not use this port, but it can be used for telemetry, GPS, Spektrum satellite receivers (all working) and other I2C peripherals (under development). ReceiverPort : JST-SH 8-pin. The receiver port can act as an input or output port depending on the configuration that is installed in the hardware settings. Setting up the receiver port as an exit port allows the user to assign more output channels than the 6 standard servo outputs. Use depends on the type of RC receiver used, and and OneShot125 or PWM Sync is welcome: PWM PWM-NoOneShot should be used with a regular PWM-type receiver. The six most right-handed wires of the receiver port carry a signal for each channel individually. PPM - Pin 3 PPM-NoOneShot is used with state-of-the-art PPM receivers that combine a single-wire control signal. The PPM stream must be sent to the first entrance through a white wire connected to the CC ReceiverPort/pin 3 wire. Only one signal pin is used for the PPM receiver - the remaining wires connected to the CC ReceiverPort 4-8 wires remain unused. PPM-PWM-NoOneShot combines the two modes above, the wire/contact 3 is used for PPM, and the rest, wires/contacts 4-8 are used as PWM input. PPM-Outputs-NoOneShot allows PPM to be entered into the receiverPort/pin 3 wire, and PWM output in wires/pins 5-8. They work like weekend channels 7-10. PPM - Pin 8 PPM_PIN8/OneShot is a new mode in which the PPM input wire moves from the previous ReceiverPort 3 contact code to Contact 8 to allow PWM Sync and OneShot125 to be used as ESC exit modes. RECEIVER PORT AS OUTPUTS Outputs-OneShot makes ReceiverPort 5-8 contacts work as a 7-10 channel output. ReceiverPort 3 and 4 contacts are not used. This and disconnected variant can be used if the control communication passes through the spektrum satellite receiver or directly through telemetry. Disconnected -OneShot basically disables ReceiverPort. By default settings, the Vehicle Setting Master will install the receiver port as a PPM_PIN8-OneShot when selecting a PPM-type receiver. Please note that the output rate on weekend channels from ReceiverPort cannot be set individually. If servos are connected to these outlets, you need to make sure that they can work at a certain output rate for the connected channel. For example, if you choose a high-speed output to support the octocopter configuration, the upgrade speed from Weekend Channels from ReceiverPort is tied to the upgrade speed from channels 5 and 6. In this case, you can not connect analog servos to these outlets, as the analog servo supports only output frequency 50 Hz. Withdrawals are set on the GCS Outputs page. Warning MAKE SURE YOU CONNECT POSITIVE AND NEGATIVE RIGHT. CopterControl can eat in a number of ways. Through the USB port, through power pins on servo paddocks or through the ReceiverPort connector (see port section for port location). When working with USB, peripherals connected (receiver, serial ports, servos, ESCs) will not be powered to protect your computer from too much current to draw via USB. The minimum allowable input voltage for CopterControl is 4.8V, with a maximum allowable input voltage of 15V. You can connect USB and receiver (with power) at the same time. Beware, PWR Out contacts provide unregulated voltage in ports. If the CC is powered by a 15V source (maximum allowed), then the 15V will be on PWR Out pins and can damage connected receivers, GPS, telemetry modems or other additional boards. If you're a air traffic controller servos (using the BEC speed controller function), positive lead powering from only one ESC is really needed. In most cases, all wires can be left untouched and connected to the board without any problems. If you're having trouble setting up or know that your particular ESC model requires it, you can remove positive and negative contacts from all but one of the CERVO ESC connectors. In some ESC (very little, in fact), connecting multiple voltage regulators (embedded in ESC) in parallel can cause problems. In addition, in rare cases, connecting multiple ground wires can lead to ground loops, so remove additional ground pins only in case of strange problems. In these photos see how to remove and isolate the positive wire from the ESC. Remove the positive and negative wire, leaving only a signal cable connected to all but one of your ESC. This example used a small screwdriver from a flat blade (or X-Acto knife) and a 2mm tube to compress heat. This modification can be easily reversed by removing the heat to shrink and inserting the positive wire back into the ESC connector. Also, remove the ground wire when removing the hot and isolate separately from the hot wire. CopterControl uses JST-SH. The CopterControl board comes standard with one 8-pin connection cable, as shown below to connect the receiver. In addition, one 4-pin JST-SH cable is available to connect to MainPort or FlexiPort. You can easily cut out a 4-pin cable and connect telemetry or satellite Spektrum. Pin Color PWM-NoOneShot Feature PPM-NoOneShot Feature PPM-PWM-NoOneShot Function PPM-Exits NoOneShot Feature PPM_PIN8 OneShot Feature Exits OneShot Feature 1 Black GND GND GND GND 2 Red PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) 3 White PWM entering 1 PPM entry PPM entry PPM entry - - 4 Blue PWM input 2 - PWM input 2 - - 5 yellow entry PWM 3 - PWM input 3 PWM Output 7 - PWM Output 7 6 Green PWM input 4 - PWM input 4 PWM output 8 - PWM output 8 7 Orange PWM input 5 - PWM input 5 PWM output 9 - PWM output 9 8 Purple PWM input 5 -PWM entering 6 PWM Output 10 PPM entering PWM Output 10 Pin Color Tension Serial Feature Spektrum S.Bus 1 Black GND GND GND GND 2 Red 4.8V - 15V PWR Out (VCC Unregulated) PWR From (VCC Unregulated) PWR Out (VCC Unregulated) PWR Out (VCC Unregulated) 3 Blue 3.3V TX SCL - - 4 Orange 3.3V (5V Tolerant) RX SDA TX (Signal) TX (Signal) Warning Spektrum adapter should be put into action only 3.3V, step down adapter should be used. Beware, the PWR Out voltage depends on the voltage supplied by the CC. that you are using the right voltage for your S.BUS receiver. There are several ways to connect the receiver to CopterControl. You can connect any plug from the CopterControl receiver cable to any channel of your receiver. The correct display of channels is done in GCS GCS However, as a benchmark for the standard PWM receiver, you can connect it as follows: For Futaba and Hitec Channel 1 AILERON or ROLL White Signal 1 Channel 2 ELEV or PITCH Blue Signal 2 Channel 3 THROTTLE Yellow Signal 3 Channel 4 RUDDER Green Signal 4 Channel 5 GEAR - Flight Mode Orange Signal 5 6 AUX 1 Purple Signal 6 for JR and Spektrum Channel 1 THROTTLE White Signal 1 Channel 2 AILERON or ROLL Blue Signal 2 Channel 3 ELEV or PITCH Yellow Signal 3 Channel 4 RUDDER Green Signal 4 Channel 5 GEAR - Flight Mode Orange Signal 5 Channel 6 AUX1 Purple Signal 6 Note If you are unsure of the type of your receiver (PPM, PWM, Spektrum Satellite...) or where to connect it Please refer to this page where different options are explained. 3-осевой гироскоп массив: IDG-500 и IS-500 3-осевой акселерометр: ADXL345 поддерживает несколько общих входов RC: 6 каналов PWM, комбинированные PPM, Spektrum/JR DSM2, DSM1, DSMX спутники, и Futaba S.Bus приемники Одновременно поддержка нескольких приемников ReceiverPort функции (настраиваемый): 6 PWM входных каналов или комбинированный поток PPM, 4 PWM выходные каналы MainPort функции (настраиваемый): серийная телеметрия (по умолчанию), GPS, GPS, Спутники S.Bus, Spektrum/JR FlexiPort (настраиваемые): серийная телеметрия, GPS, спутники Spektrum/JR, или периферийные устройства I2C (в стадии разработки) 10 выходов PWM на сервоприводы или ESC, или для стабилизации камеры стабилизации камеры: поддерживает до 3-осевые камеры с стабилизацией и ручное управление от любого из настроенных приемников На борту USB подключения для легкой конфигурации USB и серийной телеметрии и конфигурации (в том числе беспроводной с дополнительными радиомодульми) Поддерживается мощным OpenPilot GCS 4 Mbit бортовой памяти 3C кватернион на основе дополнительного фильтра работает на 500 Гц © copyright LibrePilot / OpenPilot сообщества. 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