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Rebonjour Didier Moullet | VOIR COMPTE | VOIR PANIER | TOTAL \$0.00 QTY 0

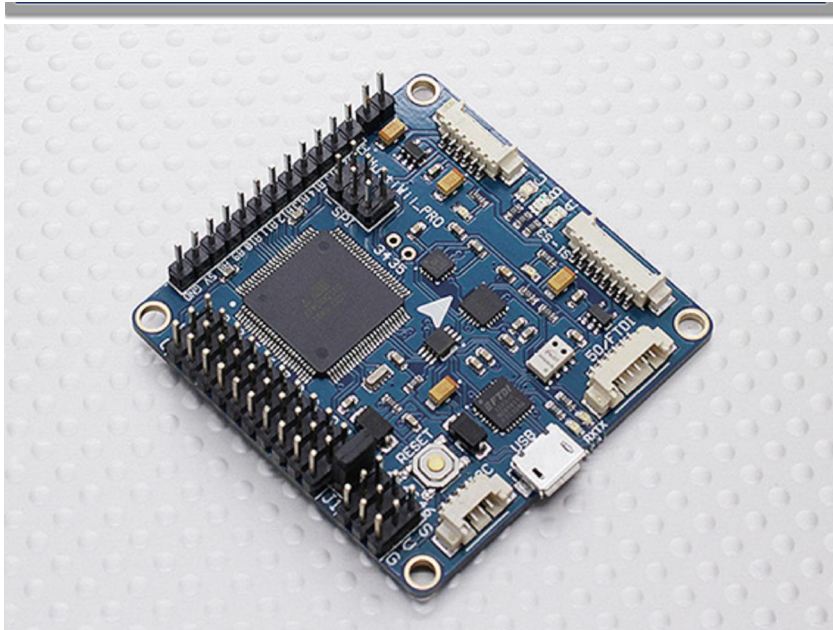
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INTERNATIONAL WAREHOUSE

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Note:   

Multiwii and Megapirate AIO Flight Controller w/FTDI (ATmega 2560) V2.0



This board features a multiple serial interface as well as a dedicated I2C interface. You can now plug in a GPS directly, and you still have extra ports for other external devices. In addition to that, the new ATmega 2560 has more IO pins so it can both read the PWM signal from your receiver and it has enough PWM outputs to control the ESCs directly without the need to do the PWM signal in software.

This controller even has a MicroUSB port right on the board, no need to attach an extra FTDI USB interface.

The motion sensing side features a new generation MEMS Gyro, a MPU6050 by InvenSense, which has the MEMS Gyro / Accelerometer sensor on a single chip. There's also a 3-axis magnetometer and a barometer sensor with a resolution of 0.01 millibar – approximately a 10 cm height difference.

Interested in GPS functionality? Well this is one of the most cost effective ways to get started - simply add a 10Hz GPS module (coming soon) and you're good to go!











Features:

- Supported MegaPirateNG and MultiWii firmware
- Up to 8-axis motor output
- 8 input channels for standard receiver
- 4 serial ports for debug/Bluetooth Module/OSD/GPS/telemetry
- 2 servos output for PITCH and ROLL gimbal system
- 1 servo output to trigger a camera button
- 6 Analog output for extend device
- A I2C port for extend sensor or device
- Separate 3.3V and 5V LDO voltage regulator
- ATmega 2560 Microcontroller
- MPU6050 6 axis gyro/accel with Motion Processing Unit
- HMC5883L 3-axis digital magnetometer
- MS5611-01BA01 highprecision altimeter
- FT232RQ USB-UART chip and Micro USB receptacle
- On board logic level converter

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[Les bases du vol électrique](#)


- Mon historique**
- MultiWii PRO Flight Co...  IN STOCK \$64.99
 - Multiwii and Megapirat...  IN STOCK \$47.99

- Flash Sale Items**
- Hobbyking Junkers JU-52 1200mm (PNF)  IN STOCK 1days
 - ZIPPY Compact 3300mAh 9S 35C Lipo Pack  IN STOCK 1days
 - Hobbyking Turning Trix MX2 1920mm EP 3D (ARF) (USA Warehouse)  IN STOCK 2days
 - Yak 54 1870mm 120e class 3D Scale (ARF) (USA Warehouse)  IN STOCK 2days
 - P-47 Thunderbolt Composite 1800mm (ARF) (USA Warehouse)  IN STOCK 2days
 - Hobbyking MXS-R Gas 26cc~30cc 1854mm (ARF) (USA Warehouse)  IN STOCK 2days
 - Sbach 342-50e 1530mm (ARF) (USA Warehouse)  IN STOCK 2days
 - Extra 330SC 1650mm 90e class 3D Scale (ARF) (USA Warehouse)  IN STOCK 2days
 - Extra 260 3D 1754mm 26cc~30cc Gas (ARF) (USA Warehouse)  IN STOCK 2days
 - Hawker Hunter 90mm EDF Swiss Air Force 1112mm w/fan, motor and Oleo Legs (ARF) (USA Warehouse)  IN STOCK 2days

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Flight mode for Multiwii:

- One of the following basic modes
 - Acro
 - Level
 - Alt Hold
 - Heading Lock
- Optional mode
 - HeadFree (CareFree)
 - GPS Hold (Need GPS receiver)
 - GPS Back to home position (Need GPS receiver)

Flight mode for MegaPirate:

- Acro
- Alt Hold
- Loiter (uses GPS)
- Guided (uses GPS)
- Position (uses GPS)
- Circle (uses GPS)
- RTL (uses GPS)
- Auto(uses GPS)
- Follow Me(uses GPS)

Sizes:

Dimension: 50mmX50mm
Height: 11.6mm
Fixing hole spacing: 45mm
Hole diameter: 3mm
Weight: 14.2g

Includes:

- 1 x AIO PRO FC
- 3 x 3Pin to 1Pinx3 cable 100mm
- 1 x 3Pin to 3Pin cable 100mm
- 1 x Molex 1.25mm 4Pin cable 100mm
- 1 x Molex 1.25mm 6Pin cable 100mm
- 1 x Molex 1.25mm 8Pin cable 100mm

Produit ID: 387000007

WEIGHT: 45g | STOCK: 10+ | QTY: Buy 1 | PRICE: \$47.99

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[+](#) **ADD TO CART**



ACC.



Minim OSD v1.1

Combo Price: \$19.95 IN STOCK

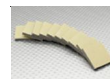
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Turnigy Battery Strap 330mm

Combo Price: \$1.55 IN STOCK

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Gyro / Flight Controller Mounting Pad (10pcs/bag)

Combo Price: \$1.95 IN STOCK

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NEO-6M GPS Module

Combo Price: \$21.95 IN STOCK

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OrangeRx Open LRS 433MHz TX Module (JR/Turnigy compatible)

Combo Price: \$29.95 IN STOCK

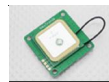
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Multiwii MWC FC Bluetooth Module Programmer (Android compatible)

Combo Price: \$7.45 IN STOCK

[BUY NOW](#)

**UBLOX LEA-6H GPS Module w/Built-in Antenna 2.5m Accuracy V1.01**Combo Price: **\$51.87** IN STOCK**BUY NOW**

Note des clients



4 crowns



Ce sujet comporte 236 discussions

Question title

Youtube:

format: <http://www.youtube.com/watch?v=Im3vyoSdXMq>**Image Upload****Submit****BIRGER** 131 points - 5/07/2013

Is the front of the board configurable? I hook it up to the Mission Planner software and it behaves with both the horizon and compass corresponding with the arrow pointing to the right (single pins forward, USB port backward). Is this Normal?

**Farzin** 328 points

200+

The white arrow printed in the middle of the board should point forward. That is the correct orientation for all the on board sensors. But you can change that by changing the axis of those sensors via software in MultiWii config.h. I would not personally want to mock with that. Just install it the way is intended - with the white arrow pointing forward.

**BIRGER** 131 points

100+

I'm using MegapirateNG and Mission Planner, not MultiWii but I will assume that there is a place somewhere where I can change this as the board is definitely not behaving as if the arrow is the front. I guess it's back to doing more research.

**Farzin** 328 points

200+

Ok, I assume you have gone through the calibration of both the Accelerometers and Magnetometers, using Mission Planner. Regardless, you must install the FC with white arrow pointing forward i.e forward flight direction. The Artificial Horizon will look reversed on the GUI, but imagine you are in the cockpit, and you roll/bank to the left. The ground/brown will appear on your left and the blue sky on your right. If you are seeing this behaviour, you are all set to go. Happy flying.

REPLY**sean** 5 points - 3/07/2013

Hi every one i just installed the NEO-6 gps on this FC it is all working as far as the win_gui program is concerned, it shows gps lock all green and the packet data indicator is indicating data receiving. Then i configured aux 1 for gps home function, but when i took it out to try there was no response when i activated the gps home function, the quad just stayed where it was no sign of it returning to home position. The B led on the fc was blinking in sets of 3 flashes after the gps indicated it had a lock. have i missed something? Any help is much appreciated.

**Daniel** 1 points

Hi Try enabling level or horizon functions together with return to home.

**Farzin** 328 points

200+

Basic check - In win_gui do you see your Aux1 reading/value changing when set to GPS Return to Launch? If not, you must connect your Rx-Aux1 to your FC-Aux1 port. The normal behaviour is that the bird will gain altitude and begin to circle to come home.

REPLY**Victor** 31 points - 3/07/2013

Arducopter 2.9.1 code compatible ? any modification

needed ? thanks



Jason 56 points
MegapirateNG 2.9.1 (the ported version of Arducopter) is 100% compatible without modification.

REPLY



Victor 31 points - 3/07/2013

any bc for this ? thanks

REPLY



dwint 4 points - 3/07/2013

Can the HK Multiwii ,Megapirate AIO Flight Controller and the NEO-6M GPS Module operate with the Futaba 6 channel system do I need a 8 channelsystem? I am trying to add GPS to my quad copter.



Farzin 328 points
200+

Yes, it can. Just use a three position switch say Aux1 for your modes, and Aux2 configured for RTL/RTH.

REPLY



Chris Wilh 2 points - 3/07/2013

Does 400hz I2C speed work with this board?



Farzin 328 points
200+

In general it*s better to start with the I2C communication at 100Khz, to lessen possible errors. You may experience freezes/bad data if your device cannot handle 400Khz. The higher speed is hardly noticeable. This FC can handle 400Khz - no problem. Adjust the definition in config.h for Multiwii.

REPLY



George 1 points - 30/06/2013

ArduCopterNG or MegaPirateNG? Just wondering about the general opinion

REPLY



André Ricardo 7 points - 30/06/2013

Which is better, this board or Multiwii Pro? Thanks



Crono1124 155 points
100+

Depends on your needs I guess is a safe answer. The multiwii pro comes with a GPS last time i checked but it also costs a little bit more. If you have a GPS on hand or want a better one than the multiwii pro offers then I would suggest purchasing this one. Both are extremely capable FC's but the most obvious difference is GPS capability and price.



Farzin 328 points
200+

This FC has the latest 10DOF (Degrees of Freedom) sensors i.e 3 axis Accelerometers, 3 axis Gyros, 3 axis Magnetometers and Barometer, compare to the Pro that comes with older MTK GPS positioning engine. You can get yourself a u-blox GPS for this FC, which has better performance. I recommend this FC.

BEST ANSWER CREDIT AWARDED



Farzin 328 points
200+

...the above doesn't read very well. I meant - compare to the Pro, that also comes with older MTK GPS positioning engine.

REPLY



laith 5 points - 28/06/2013

hi I am new youser of multiwing and I want to use GBS sestem but I dont now how it work I have AIO also a have futaba 7ch tx. for GBS how it help me in my airplane If any one help me and thank you very much

REPLY

**Wilds315** 17 points - 27/06/2013

Does anyone know where I can get molex cables 6 pin?

**Farzin** 328 points

200+

If living in USA, try Jamesco.

REPLY

**laith** 5 points - 27/06/2013

I conect AIO to my laptop wich have windose 7 but windose 7 dont know the USB OF AIO is there proplem with AIO or I need another type of windose can any body help me plese

**jahatton** 66 points

You will need a driver for your USB. I checked in the files folder and only found the Vista driver. If you go to Multi-Wii site you can find the drivers there. Hope this helps. Jim

**Farzin** 328 points

200+

The best way is to download the Arduino SDK, and try to connect to Arduino Mega 2560 board, from Tools - Board menu. That will install the right driver for you.

**laith** 5 points

thanks for your help

REPLY

**George** 1 points - 27/06/2013

Is this Cirus AIO v2.0 or v1.1? I don't see any reference to the on board storage that v2.0 has

**Farzin** 328 points

200+

This FC is the clone of Cirus AIO v1.1 (without the Data Flash)

**grmis** 75 points

I confirm: it is a clone of the CRIUS AIOP v1.1. Although it is called "v2" here, it is *not* a clone of the CRIUS v2. As Farzin wrote, it has no flash memory for data logs.

**Nathan** 6 points

AND it does not have the upgraded BARO with hard casing.

**Farzin** 328 points

200+

The Baro MS5611-01BA01 definitely has the metal casing. I have three of the current version i.e V2.0, and they are all metal. The older version of this FC has the plastic casing for the Barometer, and I have one of those too (GND pin on the 5V regulator not connected - so called faulty ones). They all work flawlessly even the faulty one, as I do not use the S1-S3 ports on that board and the onboard 5V regulator is not used.

**George** 1 points

how can I then connect a GPS is the serial ports aren't used? or did I get that one wrong?

**grmis** 75 points

Yes, the GPS should be connected to one free serial port. With ArduplaneNG or Megapirate softwares, the default port for the GPS is S2.

BEST ANSWER CREDIT AWARDED**Farzin** 328 points

200+



This version has no problem with the 5V regulator. You'll have to power the FC via Extend Power In header Pins and remove Jumper J1, to get the 5V regulator providing power to S1-S3. Then you can connect your GPS to Serial2 port on S1-S3.



**Farzin** 328 points



200+

...S1-S3 has a 5V,GND power rails that provide power to your GPS/OSD/Telemetry module(s). Hope this helps with the confusion.



 **George**  1 points
thanks!



 **George**  1 points
I can't seem to get the GPS running correctly. I've got the LEA-6 uBLOX GPS. It powers on but mission planner still says no GPS detected. I've tried GPS protocol UBLOX and AUTO just to be sure. I've soldered RX to TX and TX to RX on S2, that should be correct?

 **grmis**  75 points
Yes, that sounds correct... perhaps a problem with the baud rate ?

 **George**  1 points
chester writes on the UBLOX discussion board that the pins described for RX and TX are reversed. Anyone else with that experience? In that case soldering should be done RX to RX and TX to TX..



REPLY



 **Arnaldo**  102 points - 27/06/2013
Anyone know how to make appear the voltage of the battery in copter GCS? which connects the battery on the board?

 **Big Ern**  75 points
You have to build a voltage divider and then input that on to pin A0. Set it up in mission planner and it works well.








REPLY



 **squidyman**  75 points - 26/06/2013
Hi. A bit of an unusual question. The 2 servo gimbal ports on the board. When I plug in the servos will I need a separate gyro to keep the camera level? Or is that adjustable from the AIO board? Thanks!

 **Thomas**  1 points
It is adjustable from the AIO board. I tested with the MegaPirate program on this board.



REPLY

 **francky1606**  12 points - 24/06/2013
I bought one of this card a few weeks ago, but it was not in the box when my order arrived. Hobby King asked me to take picture of the missing item.....the I bought a real Cruius in a shop in my city. Now, i am making another quadcopter, and I bought again this card. I used a BEC from hobby king, I have been very carefully with connections. And when I have plugged the card, it made some smoke, and didn't powered. I tired again with my cruius, and everything was ok..... So lot of problems with this card and Hobby King's guarantee doesn't exist. Be careful buyers !!!

 **Farzin**  328 points
 200+
Parcels are weighed for contents (plus/minus 5g), before they are shipped. So, it will be very hard to substantiate one item weighing 45g is missing. Good Luck.

 **francky1606**  12 points
Thanks FARZIN, I don't mind for a card missing. In my package, I had a lot of paper inside. Maybe some people took the card during the shipment. It's possible. But KH asked me pictures of the missing items...strange no? how can you make a picture of something when you don't have it? So I bought a real cruicard in a shop in my city. The problem is now with another card, that I bought, and I have received... I'm not lucky with it.....

REPLY

 **Yeswecan**  153 points - 24/06/2013
Can anyone advise which is better : this AIO or the HK MEGA 2.5 . and a suitable gps. The hk mega is currently on back order and wonder if I should wait or get the AIO. Appreciate any advise or comments. Cheers.

**shackfu** 66 points

This is hard to answer. With AIO you have the choice of using Mwii or MegaPirateNG. With HKMEGA2.5 on the other hand you can't use Mwii, but you can flash the newest releases of ArduCopter (e.g. V3.x). With AIO you have to wait till it's ported to MegaPirateNG

BEST ANSWER CREDIT AWARDED

**Yeswecan** 153 points

Thanks for the info. Been reading up on both.

**Farzin** 328 points

Shackfu - what does 'With AIO you have to wait till it's ported to MegaPirateNG' really mean?

**shackfu** 66 points

The MegaPirateNG Project is porting from time to time the sources from the original APM2.5 to the Crius. The newest MegaPirateNG Source you can get is by now the V2.9R7. In the ArduCopter Repositories you can get V3.0.

REPLY**mrhutten** 3 points - 24/06/2013

Is it possible to use both the USB connected to a PC and the serial ports. Because, as I saw in the discussions that the serial ports need extend power in or UBEC's power.

**Farzin** 328 points

Absolutely, the USB (5V) powers all the sensors and ports of the FC (bypasses the onboard 5V regulator). So you can run your GUI and read off the sensor values, including GPS bearings or any additional sensors like sonar. The Extend Power In with bridging jumper removed powers the onboard 5V regulator that powers a 3.3V regulator for MCU and sensors, as well as 5V for any external module(s). Powering through ESC-UBEC/motor header, only powers the onboard 3.3V regulator with J1 jumper installed.

**mrhutten** 3 points

If both the USB and the Extend Power In powers the sensors, won't there be a conflict between these two power supplies?

**Farzin** 328 points

You generally use USB when you are loading firmware and using the GUI to view the sensors' readings/values. You do not necessarily need to power the FC in any other way in this configuration. Extend Power In powers the onboard 5V regulator, output of which goes to S1-S3, and 3.3V onboard regulator.

**Farzin** 328 points

...If both power sources are present, no harm will be done. Switching regulators adjust their output based on a feedback loop.

REPLY**Martin** 1 point - 24/06/2013

Is there also a schematic available of this board?

REPLY**George** 1 point - 23/06/2013

I'm a bit confused regarding the ESC pin out of the MultiWii board. Manuals in the files section describe one way of pinning ESC's to the board and the README.txt included in the MegaPirateNG source describe another layout. Which one to follow?

**Thomas** 1 point

for MultiWii programm use the MultiWii layout and for MegaPirate the MegaPirate layout. Read the manuals in the HK file's!!

REPLY**Luca** 3 points - 21/06/2013

How to connect the MinimOSD and the NEO 6 GPS Both at the AIO. Which TX&RX is for GPS and which is for MinimOSD ? There RX&TX 1 to 3. Thanks Guys

**Farzin** 328 points

200+

S1-S3 pin outs viewed from the front, left to right: (tx1, rx1, tx2, rx2 tx3, rx3, vcc, gnd). For GPS use Serial2 (Tx2, Rx2 pins on S1-S3). You must cross wiring i.e GPS-Tx goes to FC-Rx2, GPS-Rx goes to FC-Tx2, FC-VCC to GPS-VCC and FC-GND to GPS-GND). You must also power this FC via Extended Power In, and remove J1 jumper, or your S1-S3 will not have any power provided to it. Telemetry goes to Tx3,Rx3 (wires crossed).
BEST ANSWER CREDIT AWARDED

**Luca** 3 points

Thank you !!

REPLY**Wilds315** 17 points - 21/06/2013

Ok odd off the way question, with this board could you get a video out for like osd ? I have the GPS mod and blue tooth but I wanted something on screen with out having an extra GPS and osd board too...

**alex.khoroshko** 397 points

200+

Yes, sure. You can buy minimosd from here. It works as is with megapirateng and needs reflashing to rushOSD when used with multiwii

**Wilds315** 17 points

Do you mean the hk osd main board?

**alex.khoroshko** 397 points

200+

No, ID: 387000015 (enter to product search). You will also need FTDI adapter to configure it (and reflash, if used with multiwii)

**Wilds315** 17 points

So I can use a mini ardu?

**alex.khoroshko** 397 points

200+

What do you mean by mini ardu?

**Wilds315** 17 points

mini arduino

REPLY**Anthony** 1 points - 21/06/2013

Can I use this board for fixed wing? Is it compatible to ardupilot(tm)? In other words, can I connect to flight planner and load the firmware through it?

**alex.khoroshko** 397 points

200+

Yes, you can connect the mission planner, but you'll have to build and upload the firmware manually. The arduplane port for this board is documented not as good as arducopter, so you'll have to do some research. As an option, you can buy the HKPilot, which is totally compatible with original ardupilot firmware.

**jerryatrik** 41 points

i used the same arduplane code as the APM2.

**Anthony** 1 points

Both of you thanks for the answers. I was a bit confused, but all become clear now. This board is Crius, the KHPilot (unfortunately out of stock) is 100% AP compatible.

REPLY**Arnaldo** 102 points - 21/06/2013

anybody help me, the roll in AIO is inverted, if decline for right, in ardupilotmega show declined left, I use megapirateNG 2.8 r3.

**alex.khoroshko** 397 points

200+

It shows horizon, not copter position. So all is OK - if you turn your head right you'll see the horizon declined left.

BEST ANSWER CREDIT AWARDED

REPLY

**Ray** 15 points - 20/06/2013

Watch out, cagey they are, they listed the NEO-6M GPS Module above but it DOES NOT CONNECT (pin count mismatch) There appears too little data for sorting out how to convert the NEO-6M GPS Module to this board as well.

**Ray** 15 points

Okay, examined the NEO-6M GPS Module with my trusty 20x jeweler's monicle. The serial port comes to the edge of the GPS module, the I2C is used for a pesky configuration eeprom. If you place board so eeprom is at top the TxD1 is top and RxD1 is bottom. Turn AIO over to read the text underneath and (as per manual) use TX2, RX2.

**Ray** 15 points

Sorry, forgot. Use the cabling from the AIO and not the one supplied with the NEO-6M GPS Module.

REPLY

**Daniele** 44 points - 20/06/2013

Why from the multiwii gui i cant see the aux change while I use the switch? Im using a turnigy 9x with er9x

**squidyman** 75 points

You will have to adjust that from the arduino source code. Many videos explaining how to setup mega pirate on youtube. Hope that helps.

REPLY

**mrhutten** 3 points - 20/06/2013

I programmed my board with megapirate 2.8 R3. When connected to the roll, pitch and magnetometer give the wrong orientation. I configured the software for PIRATES_FREEIMU_4. Is this wrong or should I configure more for this?

**Farzin** 328 points

200+

Your FC type definition is Wrong. You must #define PIRATES_SENSOR_BOARD PIRATES_CRIUS_AIO_PRO_V1. Happy flying.

**mrhutten** 3 points

Thanks, I'll try that. Is this wrong described in the files added for this article?

**mrhutten** 3 points

When I use the PIRATES_CRIUS_AIO_PRO_V1 configuration, the pitch is ok but the roll is still inverted* if I move the board on its left the Mission Planner shows a vertical horizon with the air on the right, I would expect the air on the left.

**Farzin** 328 points

200+

That is the normal response/behaviour. Imagine you are in the cockpit and roll to the left. You would see ground to your left and blue sky to your right. Happy flying.

**Farzin** 328 points

200+

...Totally unrelated to the above. Also, be mindful of your Tx channels. Sometimes you need to reverse the channel(s) for proper/expected operation of the control surfaces eg. I have my channels 2 and 3 reversed on a Futaba (Elevator/Pitch, Throttle).

REPLY



**Joe** 1 points - 20/06/2013

I got my board programmed, and configured in WinGUI. But my motors won't spin up.

 **Farzin**  328 points
200+

You have to Arm the FC by having your throttle stick position down to minimum and then give full Right Yaw for 2 seconds. To disarm You'll have to give it full Left Yaw for 2 seconds. Warning, Do not Arm the FC if you are using the Default Firmware as it will start the motors spinning in Idle Speed. The best practice is to have no props on the motors when first setting up or familiarising yourself with the workings of FC. I assume you have programmed your ESCs and Throttle Range Set them too.

BEST ANSWER CREDIT AWARDED

 **Joe**  1 points

I armed it like you said, and although I don't have default firmware (didn't even know it had default firmware) it idled up. I will have to look at programming the ESC's, but I believe these are ready to go (Turnigy Multistars).

 **Farzin**  328 points
200+



Joe, you are right Turnigy Multistars apparently do not have manual Throttle Range set up. They are good to go as far as that's concerned. But you should program them for Multirotor use - Start Mode (Normal), Timing Mode (Middle), Cut-Off Voltage (Low), Battery Type (Ni-xx). Happy flying.

 **Farzin**  328 points
200+

...If you do not want the Idle Up option on Arming uncomment the following in MultiWii config.h, `#define MOTOR_STOP //Stops the motors spinning when armed`. I personally have all my models configured with the above (contrary to popular view), as I wish to be in control of spinning props.

 **Joe**  1 points

Started flying today. It's wobbly. I used some battery padding under the FC to dampen vibration. Is that not enough? I also noticed that when I use pitch and roll, it doesn't level automatically when I release. Is this normal?

 **Joe**  1 points

I'm assuming it must be vibration causing the wobble. I'll try to get some softer foam to go under the FC. I'm apparently in acro mode, which is why it doesn't auto level. How do I switch to alt mode and level mode? Can't find that in any of the docs. I have Aux 1 and Aux 2 I'd like to bind it to. Any advice? Thanks for the help so far. It's great that there's someone here that knows this board.

 **Joe**  1 points

Figured out the modes. MultiWiiGUI just uses different names. Only the wobble to fix to be able to fly. Do you know if any adjustments in the settings will help with that, or is it just the vibration affecting the ACC and GYRO?

 **Farzin**  328 points
200+

You are definitely in Acro mode, that's default. In WinGUI, configure your Aux1 switch (preferably assigned to a three position switch) like: Low for Acro i.e nothing selected in square boxes, Middle for Horizon,Baro,Mag (Level,AltHold,Mag) and High for Horizon and Baro (Level and AltHold). Make sure you write/save the settings to the FC. I assume you have already Calibrated both ACC and MAG - that's paramount.

 **Joe**  1 points

I assume you mean Angle, not Horizon. I didn't realize they work together. I'll give it a show when my new motors arrive (in about a month :(). Yes, I'm all calibrated. Wobble is still a pain. Probably need to reduce I and D?

 **Farzin**  328 points
200+

Horizon affords you a bit of acro when the sticks go beyond 75% or so. But opt for Angle, if your flying is not aligned with Horizon. Stock PIDs generally work well with most frames. Tuning PIDs is yet another challenge. Happy flying.

REPLY

 **Georg**  13 points - 19/06/2013

well, the GPS is not ha hard guess :D And thanks for the fast response :D What does "a fair bit of setting up" include ? cheers



Farzin 328 points

200+

Connecting to the correct Serial Port on FC (mostly Serial2, and identifying Tx2, Rx2 pins on S1-S3, must cross wiring i.e GPS-Tx goes to FC-Rx2, GPS-Rx goes to FC-Tx) or if using I2C sorting out pin assignments etc. You must also power this FC via Extended Power In, and remove J1 jumper, or your S1-S3 will not have any power provided to it. And define the correct protocol in APM_Config.h based on your GPS hardware #define GPS_PROTOCOL ??? Finally, in Mission Planner - Flight Planner setting up your Waypoints. I think that's a fair bit of mocking around.



Farzin 328 points

200+

...FC-Tx2. Typo.

REPLY



Georg 13 points - 19/06/2013

short question: Is there any way of flying waypoints with this controller (f.ex. with missionplanner) ? thanks in advance



Farzin 328 points

200+

In short Yes, you just need a GPS module connected to this FC and a fair bit of setting up.

REPLY



Brian 1 points - 19/06/2013

I am having trouble getting my altitude to hold. As I watch it will jump from -300 to 2700 feet. Any ideas what would be causing that?



Brian 1 points

That is 2700 feet.



Farzin 328 points

200+

The figures you see are not in feet, altitude is measured in centimeters, your figures translate to 2700 -> 88.58 feet. Your barometer is sensitive to direct light as well as prop wash or any change in air pressure like wind. Loosely cover it with a piece of cotton wool.

BEST ANSWER CREDIT AWARDED



XRAYAIR 231 points

200+

I think Farzin is right. Sounds like you are having pressure waves hitting your flight controller from prop wash.



Farzin 328 points

200+

In the video if you watch carefully around 1:10 you see a piece of cotton wool stuck on the FC-Baro.

REPLY

.....Cliquez ici pour voir toutes les discussions

Customer Reviews

[Ecrire un commentaire](#)

Partagez votre point de vue sur ce produit avec l'ensemble de nos clients, et vous obtiendrez une remise si il est pertinent !

Note Générale Prix  awesome1Qualité  207 likes

Vous aimez ?

bought my third controller and i hope that i do not have to solder the vreg on this one a big plus for this board are the sensors they all work flawles i fly with 2 of the faulty???? boards that i have soldered the vreg and for sure i can say it is worth the money yes its not a crius but works the same for half the money AND PLEASE HK DO NOT I REPEAT DO NOT ERASE THE REVIEW AGAIN because that PISSIS the buyers off

[Aucun commentaire. Répondre..](#)Note Générale Prix  IBeHoeyQualité  428 likes

Vous aimez ?

Ahh, I can finally write a review on this product. I'm an original owner of the first version of this board, the one with a faulty GND trace. Upon receiving the board, I highly recommend you go over it with a fine comb. Aside from the known fault on the original board, I also had a lifted pin on the 2560 (A11) which resulted in intermittent yaw control. We're talking really really small pins here, unless you have expert-advanced soldering skills, and even if you do, it's probably best to just request a RMA and send it back. Now that's out of the way, on to the review. If you're new to the multirotor scene, this board is not for you. There's a lot going on with this board and to use it safely, you'll need to have a sound understanding of working/tweaking with firmware, how all the elements work and connect together, and the ability to troubleshoot/fly a buggy multirotor. If you've worked with Multiwii in the past and are looking to move on to something a little more advanced without busting your wallet, then this might be the board for you. It's ability to handle different flavors of firmware is what drew me to this board. As per the description, it can handle Multiwii, MegaPirateNG, and although it's not mentioned, I have been running ArducopterNG on it as well. It's worth noting that the MegaPirateNG and ArducopterNG are both ports of the Arducopter2 firmware. Bec

[Aucun commentaire. Répondre..](#)Note Générale Prix  gIMpYchUMQualité  5 likes

Vous aimez ?

Opened up my FC today and wasnt really happy. I got someones returned board. HK didnt even take the time to remove all the the previous persons double sided tape from the back of the board. After reading all these reviews I am wondering if it is worth my time to figure out which version I have and dive in. Man those KK2 boards are making this thing look like a nightmare! All these features better be worth the time investment.

[Aucun commentaire. Répondre..](#)Note Générale  20/03/2013Prix  SpoeckiQualité  17 likes

Vous aimez ?

Top, no problems with it. I use it with Multiwii Software. Altitude hold, Level mode, mag, bluetooth, gps hold and return to home, all works fine with high precision. Nice Board... Altitude sensor must be covered with foam... Gps is a Locosys from a Tiny OSD 2 with serial interface, 10Hz and 112500 data transfer rate... You can use one gps modul for Flightcontroller and Osd (it needs only TX from Gps Modul)

[10 commentaires. Répondre..](#)

Créer un compte

Note Générale  23/03/2013Prix  CNC millQualité  65 likes

Vous aimez ?

very good, it work perfectly!

[Aucun commentaire. Répondre..](#)

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