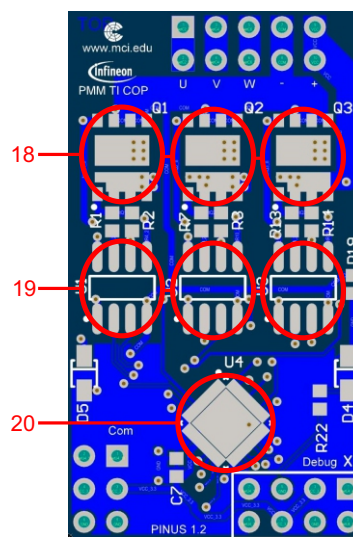
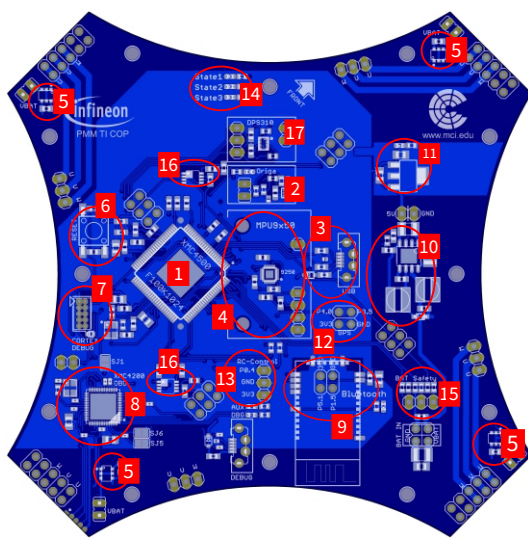


LARIX V5 + PINUS Quickstart Guide

Ready to fly: complete multicopter solution



Components description

1. XMC4500;
2. ORIGA™ 2L authentication;
3. USB serial connection;
4. MPU9250 9-axis sensor;
5. BCR321U LED driver;
6. Reset button;
7. Cortex USB debugger port;
8. XMC4200 OBD;
9. RN42 bluetooth module;
10. IFX91041V50 5 V buck converter;
11. IFX1117MEV33 3.3 V regulator;
12. GPS connection;
13. Radio control connection;
14. Status LEDs;
15. LiPo battery voltage monitoring;
16. Level shifter for 5 V PWM output;
17. DPS310 pressure sensor;
18. BSC0925ND dual MOSFET (half bridge);
19. IR2301s half bridge driver;
20. XMC1302 Q040X0128 motor controller

What do you need to get your quadcopter ready to fly?

The basic program was installed in MCUs, you just need below accessories

- > Motors: DYS 1306 2300 kV with 5 inch propeller
- > LiPo battery 3S 11.1 V 1000-1300 mAh (incl. connector)
- > Frame: You build your own frame or buy one which fits the components
- > Android smartphone (5.0 or higher) or radio control with PPM receiver

If you need function extension, what do you need for programming the XMC4500?

- > Step 1) Download and install DAVE™ 3 IDE available here:
http://www.infineon.com/cms/en/product/promopages/aim-mc/DAVE_3_Download.html
- > Step 2) Download prepared software “Software/LARIX_PINUS.zip”
<https://github.com/ManagementCenterInnsbruck/Flying-PCB>
- > Step 3) Follow the instructions on:
<http://bit.ly/24vbyiq> (LARIX_SW_Installation)
- > Step 4) Modify code to suit your needs