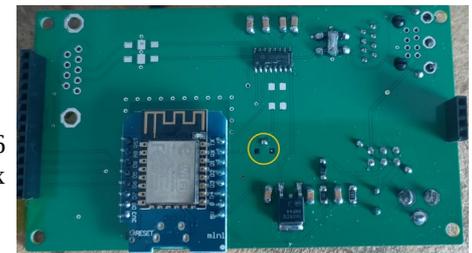
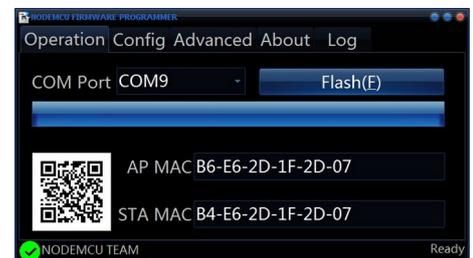
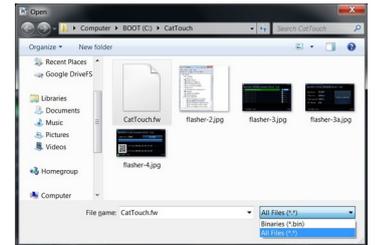
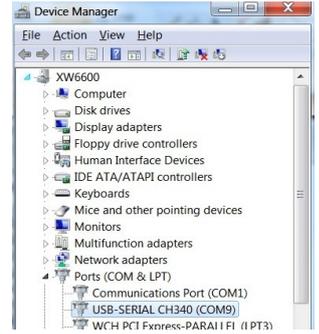


CatTouch low level USB flashing via Windows.

In some circumstances using SD Card to update CatTouch may not work. In which case you can use a Windows computer to update the firmware.

1. Remove any power supply to CatTouch, unplug it from your transceiver & plug a micro USB B cable into the bottom USB socket taking care of orientation.
2. Plug USB cable in to your Windows computer, locate and install any required driver.
3. Open device manager and find the serial port allocated to CatTouch. In this example it is shown as **USB-SERIAL (CH340) (COM9)**
4. Go to <https://github.com/nodemcu/nodemcu-flasher> and download the appropriate 32 or 64 bit version for your computer.
5. Download latest firmware at the bottom of the CatTouch product page <https://www.catmeters.com/>
6. Unzip the firmware and save the file CatTouch.fw for later use.
7. Start the flasher program **ESP8266Flasher.exe** (ignore any Windows warning)
8. Click on **Config** tab, click the little gear next to the top "Path of binary file" & a popup open dialog will appear. On the lower right, click the pull down and select *.* & select CatTouch.fw
9. Advanced tab setting should be as shown. Make sure Baudrate matches that of USB-SERIAL (CH340) (COM9) mentioned in step 3 above.
10. Click on Operation Tab. Make sure the correct COM port is selected and click Flash(F)
11. After a short time it will complete. CatTouch screen will probably still be white at this stage. Unplug it & reapply power.
12. If CatTouch does not restart or ESP8266Flasher.exe reports a communication error, double check serial drivers are installed correctly & remedy as required.
13. Some versions of CatTouch may need a diode or jumper to be removed before flashing. Remove the 4 case screws, slide out the PCB/display assembly and unplug the display. Locate the diode or jumper, shown in yellow circle & remove / desolder it. Flash again from step 7 plug in display and confirm firmware version has changed. If a diode was fitted, discard it and resolder the bridge to enable communication from the transceiver.
14. If you still have issues, remove all power and solder a jumper from D3 to G on ESP8266 module. This forces it into program mode. Flash again from step 7, remove jumper, affix display & reassemble.



If for any reason you are unable to reflash your CatTouch, please return it for repair to:

**Chris Day,
54 Wilson Street,
Seaview,
Canterbury
Timaru 7910,
New Zealand**

Please include a note describing the issue, what you have tried to do to remedy it and **your return address**.

Providing there is no evidence of misuse or abuse, it will be reflashed/repaired and returned at no cost.

Thank you for supporting my product, 73 de Chris ZL1CVD