



PicoTuner

The 2-channel version of the MiniTiouner

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Topics

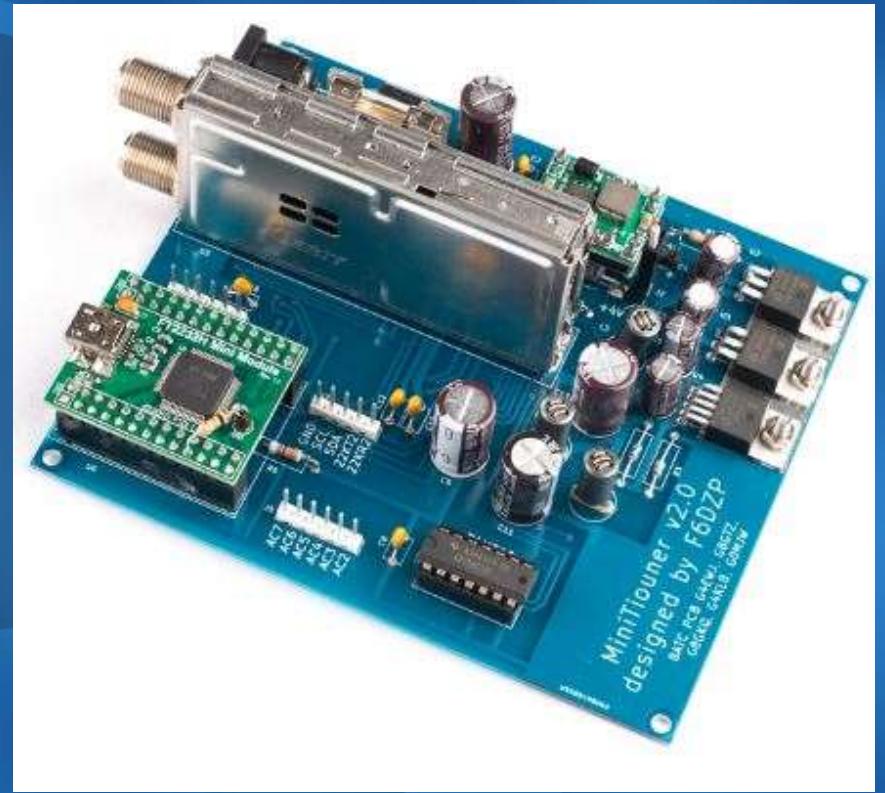
- Why change?
- What's the difference?
- How can I use it?





MiniTiouner

- Designed by F6DZP for use with Windows
- Used an expensive FTDI USB module
- No production software to view 2 signals





The Tuner Shortage

- Serit stopped making FTS-4334 tuners
- BATC and REF final buys were not big enough
- BATC persuaded Serit to look for more demodulator ICs
- Expensive purchase of 1100 tuners





Costs

- Tuners were £26, now £54
- FTDI Modules £34
- Colin G4EML proposed using a Raspberry Pi Pico module (£4) instead of the FTDI





Advantages

- More flexible
- Easier to program
- Can accept 2 serial streams from the tuner
- Simple modifications to Portsdown and Ryde software
- Optional LAN Interface

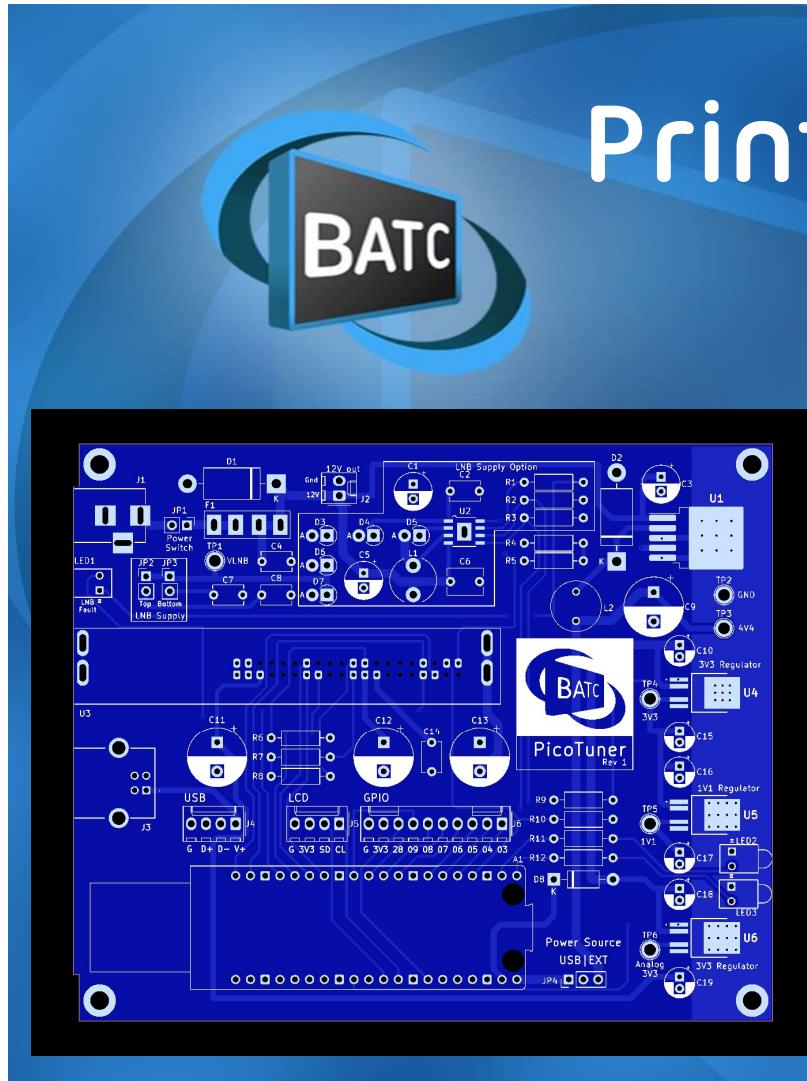




Disadvantages

- Not compatible with Minitioun software
- SR limit approx. 8MS





Printed Circuit Board





PCB Features

- Through-hole apart from regulators
- Optional on-board LNB supplies
- Optional USB-B socket
- Optional LAN to front panel





Software

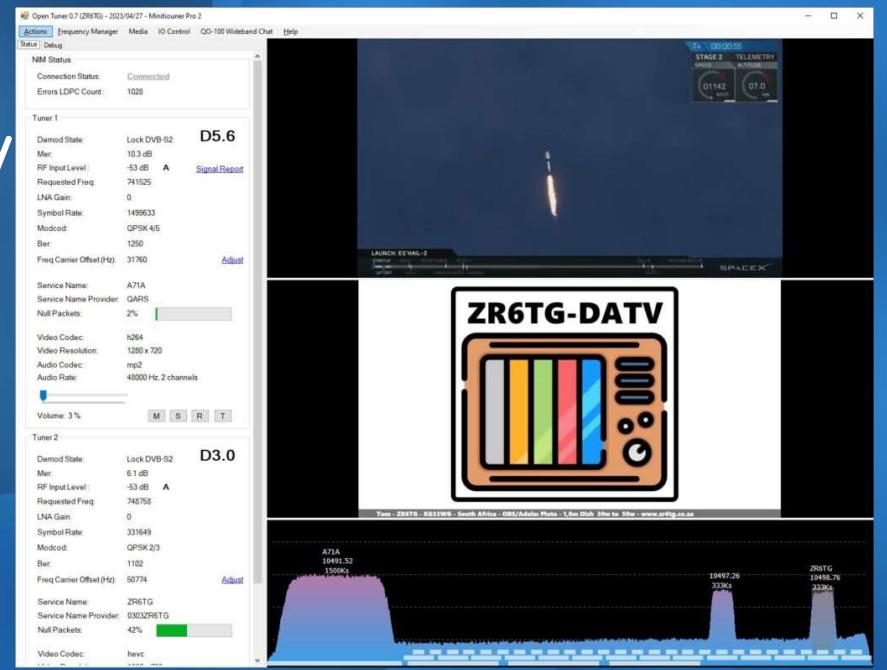
- Portsdown 4 compatible
- Ryde Compatible
- New Windows software:
 - OpenTuner by Tom ZR6TG
- MiniTionne
- LongMynd on Pluto





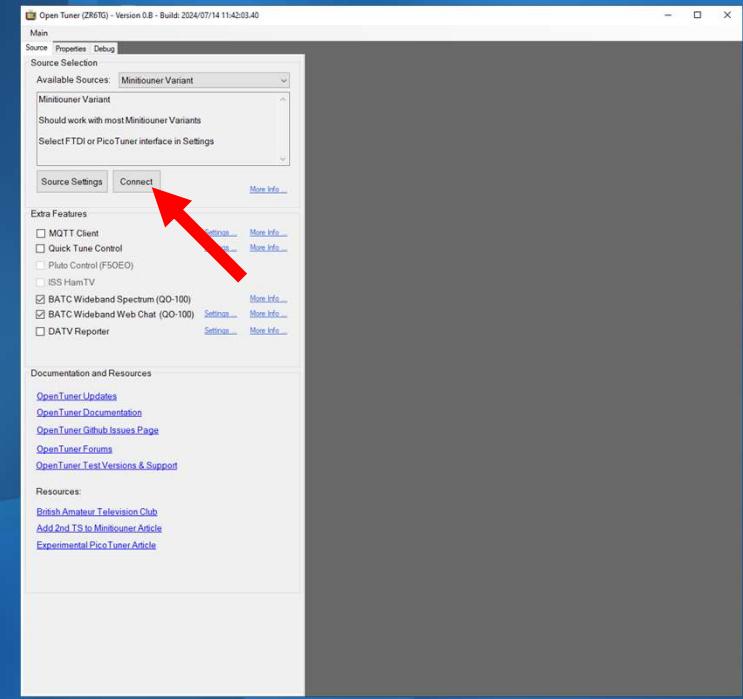
OpenTuner Software

- Free download
<https://www.zr6tg.co.za/open-tuner/>
- Windows 10 or 11
- Integrated with Spectrum Monitor
- MiniTiouner or PicoTuner



OpenTuner Installation

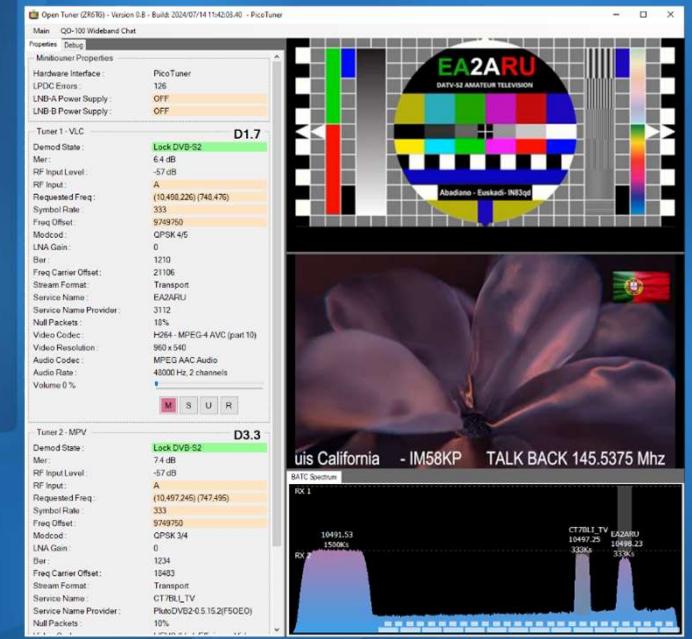
- Download .zip file
- Unzip into a folder
- Double-click opentuner.exe
- Click Connect





Dual Receive Capability

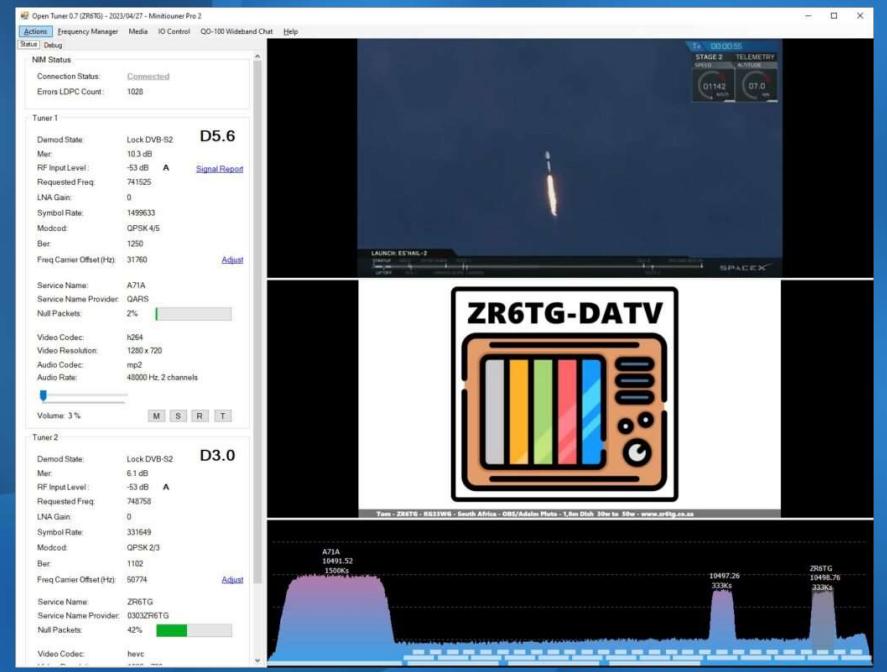
- Click on top half of spectrum for top window
- Bottom half for bottom window
- Spectrum is labelled
- Parameters on LHS





OpenTuner Summary

- Free
- Easy to Use
- PicoTuner or MiniTiouner
- Based on LongMynd
- VLC, MPV or FFMPEG





PicoTuner - Conclusion

- Simple, cheaper replacement for MiniTiouner
- Dual channel
- Optional LAN interface
- Tuners and PCBs from the BATC Shop





Questions