

Ultimate3S kit

Written by Hans Summers

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This is my implementation of the [QRP Labs Ultimate3S QRSS/WSPR kit](#). My U3S is installed in the official [QRP Labs case](#), [relay-switched LPF kit](#), and [QRP Labs QLG1 GPS receiver module](#).

The system consists of the following blocks:

- 1) [QLG1 GPS receiver kit from QRP Labs](#)
- 2) [QRP Labs Ultimate3S QRSS/WSPR TX kit](#) (including [relay-switched LPF kit](#) and [6 LPF kits](#) for 6 band operation)
- 3) [Simple RF Power meter project](#)
- 4) 13.8V 5A Switched Mode power supply
- 5) Simple 5V regulator based on the 7805 chip (TO220 package).

The RF output is connected to a 30m length of RG58 coax. At the far end, the coax connects to a balun at the centre of a simple 30m wire dipole (no tuners etc). No attempt has been made to trim the dipole for proper resonance, so this system is far from perfect. Nevertheless it works

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well. I use it on bands from 160m to 10m even though the dipole is for 30m. Obviously the other bands work less well than 30m.

Photo (click for larger size)

{gallery}u3kit/photos{/gallery}