

## 30m QRSS junkbox tx: antenna

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I am using a full size half-wave 30m dipole installed in my attic, a wire 14.2m long. I made it from 7.1m loudspeaker (figure-8) cable, split into two conductors. At the centre is a 4-1 balun constructed on a T130-2 toroid, according to the instructions at <http://www.rason.org/Projects/balun/balun.htm> . I connect the balun directly to my transmitter low-pass filter output (no ATU) using 5m of coax. The wire is reasonably straight and is taped to the roof wood at intervals. There are many pipes and cables running parallel to the wire on the attic floor, and even along the roof less than 1m from the dipole. I estimate that the height of the antenna is something like 6.5m (21 feet) above ground level.

[Attic installation](#)

The junk box beacon lies unceremoniously on two bathroom tiles, with the old IBM laptop PSU (16V out)

When taking this picture I crouched under the wire about halfway along one of the dipole's arms. You can

The transmitter location on the wooden boards in the attic. The attic is also used for storage of many ho

Here's the balun at the centre of the dipole. Notice how it just hangs there in the middle of the antenna w

Some more detail on the <http://www.rason.org/Projects/balun/balun.htm> with 18 turns. I used the same l

This is from [Google maps](#) . I've drawn the location of the dipole in red. Assuming that google

This is from Summer 2002 just before I moved here - so it's pre-renovation. The place has changed quite