

Multi-band Microwave Station Design at K4TO

Microwave Redux

OR

K4TO's Much-Later-than-midlife-Crisis

I shouldn't even be giving this program-

OR

How did I get into this mess, anyhow?

The microwave bug bites—Hard!

Unaffected by success, I decided to change everything

The new station:

The Elecraft K2 with DEMI 2M board

Six (count 'em) DEMI transverters

For

903 & 1296 MHz and 2.3, 3.4, 5.7, & 10.3 GHz

And

The Tentec OMNI VI+ (modified)

Plus

Four DEMI transverters for

50, 144, 222, & 432 MHz

Switching arrangement

Ameritron RCS-8 for the 28 MHz IFs

Homebrew microwave switch for 144 MHz IFs

Progress Report

Remaining Tasks

Design the layout and control circuits for

The four band microwave box to be mounted remotely

What do I hope to have achieved?

- 1) Quieter receive
- 2) Improved strong signal/crowded band performance
- 3) The ability to repair it all and avoid the cost and delay of sending it off
- 4) The satisfaction of using all American made, home built gear

For me, it's worth it

This presentation is dedicated to the memory of Johnny Niemeye, K9DZS









