Broadband-Hamnet™ (formerly called HSMM-Mesh™) is a high speed, self discovering, self configuring, fault tolerant, wireless computer network that can run for days from a fully charged car battery, or indefinitely with the addition of a modest solar array or other supplemental power source. The focus is on emergency communications.

In its current form it is built using the Linksys WRT54G/GL/GS wireless routers and operates on channels 1-6 of the 2.4GHz ISM band, which overlaps with the upper portion of the 13cm amateur radio band. Other platforms and bands include several types of Ubiquiti equipment in the 900MHz, 2.4GHz and 5.7GHz band. Adidtional features let signals come in on one band and leave on another without additional configuration. All mesh nodes on all bands exchange data so long as they are within range. We will be adding support for Ubiquiti 3.4GHz gear as well.

OLSR is used for auto linking of the mesh node radios.

OpenWRT firmware tools are used for firmware development.

Broadband-Hamnet™ is currently being designed, developed and deployed as an amateur radio broadband communications system. It originated in Austin, Texas but has spread all across the USA and many other countries around the world.

Glenn KD5MFW, David AD5OO, Bob WB5AOH and Rick NG5V are the gents spearheading the efforts, while yours truly, Jim K5KTF keeps the website up and running to provide information about the project. There is a distributed development community with users in a number of areas of the USA and other continents.

If you have questions, our forums would be a great place to research and ask questions. You will need to register and login to post to them but reading online is available without an account. Expanded search abilities are now available to find topics and keywords. Just use the search option at the top of most pages.