



The Scientific Alliance For Education
www.SafeHelpsYou.org

5G home box Information Sheet



5G is a new technology, untested for safety according to the industry, which will overlap with older 3G and 4G cell towers. 5G will utilize current 3G and 4G wireless frequencies already in use and also add even more radiation. 5G uses shorter millimeter waves, which operate at higher frequencies and pulsation levels. Each installation can have over a thousand antennas that are transmitting simultaneously. Because these milliwaves are short, they do not travel as far, and 5G/4G WCFs need to be closer to homes and businesses. They also have difficulty penetrating trees and homeowners may be encouraged to cut them down to get proper

service. Termed "small cell," these emit nearly the same radiation danger as older larger 4G cell towers, some experts state.

>Telecom is offering homeowners money plus free WiFi to let them put a 5G transmitter on your property. Sounds great but if you research the side-effects of these frequencies you will be spending a lot of money down the road for doctor bills. It pits neighbor against neighbor (who not only may get sick from the frequencies, but will see their property values decrease, bees and trees die, and pets develop weird symptoms), and will result in the exposure of millions of Americans to constant, involuntary low level RF microwave radiation at close proximity. Can neighbors sue the homeowner hosting this box and who pays to fight the lawsuit?

>Telecom convinced the FCC to enhance The Over The Air Reception Devices (OTARD) ruling. As it has been updated to include 5G, rule change will allow transmitting (not only receiving) antennas (including 5G antennas) to be located on people's homes without any limitations or due process to object their installations. The FCC has already eliminated most local control over the placement of 5G antennas, much to the frustration of local officials and against the advice of medical and public health professionals and scientists around the world. Even so, now the agency is considering changing the OTARD rule to eliminate any local input whatsoever. This thwarts the efforts of municipalities to control installations by imposing permit fees, compliance bonds and liability insurance for these installations on town telephone poles or allowing environmental or historic review. Therefore, these boxes can pop up anywhere in town (normally every 500'[300' from schools]) without review and be placed anywhere in front of your property – next to your flowerbed, driveway, mailbox...

>Installations in some cases have dug into water pipes and other infrastructure on the property. The question is who pays for this repair?

>The boxes may use cooling fans to keep electronics from catching fire. These run 24/7 and may emit the proverbial hum you will have to live with. With these decibel limits exceed the established recommended limits and if it is extremely noisy is there any legal recourse for the homeowner? Even if the homeowner doesn't agree to the box installation, they can be placed in the town right of way in front of their house with their ever-present hum and detraction of curb appeal.

> You may become a "business" and incur tax liabilities. These units placed on homeowner's property will not just serve that homeowner but are designed to supply neighboring customers normally within 500' of the unit designating the homeowner as a "carrier hub site". They are now a part of the carrier's network. There has never been a high-powered "user base station" that manages connections and supplies private wireless service

to other unaffiliated customers under the FCC Commission's rules and practice. If the "customer"/"property owner" is still the exclusive "antenna user" then the "customer"/"property owner" must be the one that is providing service to the public. That, in turn, means the "customer"/"property owner" is no longer a "customer" but is now a private carrier and must be directly regulated as such. Every wireless private carrier must obtain a "private radio services license,"⁵⁴ submit regular accounting reports and contribute to the Universal 54 47 C.F.R. §101.3 ("licensed" private carrier definition). This ruling may subject the homeowner to certain tax liabilities because the carrier's placement of a hub or relay is a "residential real estate-related transaction" under 42 U.S.C. §3605(b)(1)(A). It is a financial arrangement with the location owner, involves construction and is a type of "improvement" that, when made operational, has a "discriminatory effect" as defined by 24 C.F.R. 100.500.

>Scientists from all over the world have issued a declaration calling for a moratorium on the increase of 5G cell antennas citing human health effects and impacts to wildlife. "We recommend a moratorium on the roll-out of the fifth generation, 5G, for telecommunication until potential hazards for human health and the environment have been fully investigated by scientists independent from industry...RF-EMF has been proven to be harmful for humans and the environment." — The 5G Scientific Appeal (An Appeal signed by more than 250 scientists and doctors from 35 countries)

>Fiber Optic is a better solution. Worldwide, many regions are investing in wired fiber optic connections which are safer, faster, more reliable, provide greater capacity, and are more cybersecure. Read "[Re-Inventing Wires: The Future of Landlines and Networks](#)," by the National Institute for Science, Law & Public Policy

Quick summary:

- 5G frequencies have proven harmful to humans and wildlife
- 5G is short range so many units need to litter the landscape
- 5G range may not penetrate trees so clearcutting may be needed
- 5G siting on homeowner's property may have litigious implications from neighbors
- 5G boxes emit annoying hum 24/7 in your front yard
- FCC new rules allow 5G boxes to put in town right of ways without regulation
- No recourse if 5G installation damages your utility infrastructure or catches your yard on fire
- Tax liabilities may be incurred by homeowners who take money and allow 5G box on their property
- 5G boxes may not have to abide by frequency compliancy inspections or liability insurance
- 5G boxes may be place in historic areas with no town recourse.
- Established alternative is fiber optic.

*for information on the harmful effects of these frequencies visit our website and read the posts and inks. www.safehelpsyou.org