

SAS-2 Summary of FCC Radiated Emission Limits (07-011r0)



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FCC References



- The FCC part 15 regulations pertaining to our PHY call on 12/14/2006 are detailed in paragraphs “h” and “i” of section 15.3.
- Paragraph “h” documents the requirements for electronics to be used in a home environment (class A) while paragraph “i” applies to those limited to commercial application (class B).
- Note that above 1GHz, the class B radiated field strength limit is 6 dB•V/m tighter than the class A limit.

Paragraph “h” Reference



- Class A digital device. A digital device that is marketed for use in a commercial, industrial or business environment, exclusive of a device which is marketed for use by the general public or is intended to be used in the home.

Paragraph “i” Reference



- Class B digital device. A digital device that is marketed for use in a residential environment notwithstanding use in commercial, business and industrial environments. Examples of such devices include, but are not limited to, personal computers, calculators, and similar electronic devices that are marketed for use by the general public. Note: The responsible party may also qualify a device intended to be marketed in a commercial, business or industrial environment as a Class B device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B digital device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B digital device, regardless of its intended use.

Reference Note



- All referenced text was obtained from the FCC website using the following URL.
 - <http://www.fcc.gov/oet/info/rules/part15/part15-8-14-06.pdf>
- Note the document is dated 8/14/2006

Conclusions



- The critical parameter determining classification is whether the electronic device will be used in a home environment.
- The home environment has tighter radiated emissions requirements
- A portion of the low end server market does consist of the “home office” application. IDC does track sales and market trends in server classes. However, they do not distinguish between commercial and other server applications.

