

### § 15.203 Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

**PRo: By design the intentional radiator does only function in the notebooks of the manufacturer as defined in the application. Therefore the intentional radiator can only be connected to- and used with- the internal antenna of such systems. Connection to an external antenna is not possible. All this means that this intentional radiator meets the requirement.**

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

**PRo: Broken antennas cannot be replaced by the user. Broken antennas can only be replaced by the supplier of the host system (notebook PC).**

This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221.

**PRo: This devices operates under section 15.247.**

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded. [54 FR 17714, Apr. 25, 1989, as amended at 55 FR 28762, July 13, 1990].

**PRo: The antenna is an integral part of the host system (notebook PC). This antenna cannot be installed and/or replaced by the user and will be part of the host system (notebook PC) supplied to the user. The intentional radiator has been tested with types of antennas which may form an integral part of the host system (notebook PC).**

### § 15.204 External radio frequency power amplifiers and antenna modifications.

(a) Except as otherwise described in paragraph (b) of this section, no person shall use, manufacture, sell or lease, offer for sale or lease (including advertising for sale or lease), or import, ship, or distribute for the purpose of selling or leasing, any external radio frequency power amplifier or amplifier kit intended for use with a Part 15 intentional radiator.

**PRo: Not applicable. No external radio frequency power amplifier is part of the transmission system.**

(b) A transmission system consisting of an intentional radiator, an external radio frequency power amplifier, and an antenna, may be authorized, marketed and used under this part. However, when a transmission system is authorized as a system, it must always be marketed as a complete system and must always be used in the configuration in which it was authorized. An external radio frequency power amplifier shall be marketed only in the system configuration with which the amplifier is authorized and shall not be marketed as a separate product.

**PRo: Not applicable. No external radio frequency power amplifier is part of the transmission system.**

(c) Only the antenna with which an intentional radiator is authorized may be used with the intentional radiator. [62 FR 26242, May 13, 1997].

**PRo: The antenna is an integral part of the host system (notebook PC). This antenna cannot be installed and/or replaced by the user and will be part of the host system (notebook PC) when is supplied to the user. The intentional radiator has been tested with types of antennas which may form an integral part of the host system (notebook PC). The intentional radiator cannot be purchased by an user which does not own a host system (notebook PC) suitable for use with the intentional radiator. Furthermore, by design the intentional radiator will not function in other similar types of host systems of other suppliers/brands in order to prevent the use of antennas which have not been approved for use in combination with the intentional radiator.**