

## Helen Zhao

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**From:** Claire Hoque  
**Sent:** Monday, November 22, 2004 11:39 AM  
**To:** Helen Zhao  
**Cc:** Julia Luke; Nancy Omron; Yan Zheng  
**Subject:** answer: TCB questions for Tropos Networks, Inc., FCC ID: P9J-52101000, Assessment NO.: AN04T4304, Notice#1

**Importance:** High

Hi Helen,

Here are the answers.

Question #1: The theory of operation indicated that the device can be used with four antennas for diversity, each with a maximum gain of 7.4dBi (Omni Antenna), 9.9dBi (Omni Antenna), 12dBi (Omni Antenna) and 12dBi (Sector Patch type Antenna). It also shows the conducted output power is set differently, when a 7.4dBi gain or a 12dBi gain antenna is used. The end-user can order the specific antenna they want for model 52102100, please explain who will provide output power adjustment when any one of the antenna is chosen to install and how the applicant makes certain the final product on the market will be totally tuned to be compliant with FCC rule and limits.

<Tropos>

The trained technical professional is responsible for lowering the conducted TX power by configuring the equipment when higher gain antennas are used. The 5210 has a TX attenuation setting which the installer must configure. The TX attenuation setting is factory calibrated, as is the conducted TX power of the 5210. Instructions for setting the TX attenuation setting for the high gain antennas is detailed in Appendix C of our installation guide.

We have attached the latest copy of the guide in case you may have an older version.

Also attached is a screen shot of the TX attenuation setting control on the 5210.



5210 Guide  
04-11-09.pdf



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Question #2: The test report provides the output power test results when a 7.4dBi gain and a 12dBi gain antenna are used. What is the output power when a 9.9 gain omni antenna is used? How does the device meet FCC15.247(b)(4) requirement? <answer>test report is revised.



04U3022-1 FCC  
DTS Report(revis...

Question #3: Appendix 3 U.S. Approved Antenna Configurations of the user manual does not specify clearly the configurations each model will have, and the eirp with each antenna. 9.9 dBi omni antenna is not on the list. Please update. <answer>test report is revised.

Question #4: Please provide external photo of bottom view of model 52102100, 52102200.  
<answer>external photos are revised.



External  
Photos(revised).pdf

Question #5: The functional block diagram is incomplete, the right side is missing. Please resubmit a complete copy.  
<answer>pls see revised block diagram.



Tropos-5210-Functi  
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Thanks,

Claire