

## Lucy Tsai

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**From:** Amy Lie  
**Sent:** Monday, April 25, 2011 11:35 AM  
**To:** Lucy Tsai  
**Cc:** Thu Chan; Sunny Shih; Claire Hoque  
**Subject:** RE: ATHEROS COMMUNICATIONS, INC., //PPD-AR5BHB116 //AN11T0223

Hi Lucy,

Please refer to below for the answer. It is addressed by Atheros Michael Green for Samsung application.

**Thanks & best regards,**

**Amy Lie**

*Account Executive*

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**From:** Lucy Tsai  
**Sent:** Wednesday, April 13, 2011 8:17 AM  
**To:** Thu Chan; Claire Hoque  
**Cc:** Lucy Tsai  
**Subject:** ATHEROS COMMUNICATIONS, INC., //PPD-AR5BHB116 //AN11T0223

Hi, Thu,

Please address following issues.

Q#1: Please verify that this application contains a complete User's Manual and/or Professional Installers Manual. If the manual is not complete, upload an updated User's Manual exhibit.

**User manual submitted is complete.**

Q#2: Please verify that this device does not have ad-hoc mode

**This Atheros client device does support ad hoc (ie 802.11 IBSS mode) as well as other peer-to-peer, non-infrastructure mode: WiFi WFA Direct.**

Q#3: Please submit a channel/frequency plan for this device showing the channels that have active scanning or passive scanning. Active scanning is where the device can transmit a probe (beacon) and passive scanning is where the device is can listen only with no probes.

**This Atheros client device supports operation using all 802.11 channels for both 20 MHz and 40 MHz channel bandwidths (ie 802.11abg & HT20 & HT40 channels). The client supports operation in 2.4 GHz channels 1-14 and U-NII 1, U-NII 2, U-NII Worldwide and U-NII 3 bands (ie 5.15-5.35,**

**5.47-5.725 & 5.725-5.850 GHz) using standard 802.11 channel center frequencies. Active vs. passive scanning behavior changes dynamically depending on configuration and current operating state of the device. Compliance with FCC rules for Master/Client and passive scanning in 2.4 GHz channels 12-14 and radar channels is achieved via algorithms implemented in software as described in the attached document.**

Q#4: Can this device act as an access point on the non-DFS legacy frequencies (5.15-5.25 MHz)

**This device can support WiFi direct mode wherein it acts like an access point using non-DFS frequencies.**

Q#5: Please verify that this device meets the frequency requirements of Section 15.202

**This device meets the frequency requirements of Section 15.202. It is achieved via algorithms implemented in software as described in the attached document.**

Q#6: For client devices that have software configuration control to operate in different modes (active scanning in some and passive scanning in others) in different bands (devices with multiple equipment classes or those that operate on non-DFS frequencies) or modular devices which configure the modes of operations through software, the application must provide software and operations description on how the software and / or hardware is implemented to ensure that proper operations modes cannot be modified by end user or an installer.

**The attached document describes how the client software and hardware is implemented to ensure operation cannot be modified by the end user or installer.**

Best Regards,  
Lucy Tsai/UL CCS