



Oct 11, 2012

Federal Communication Commission  
Authorization and Evaluation Division  
7435 Oakland Mills Road  
Columbia, MD 21046

Re: Class Permissive II Change Application for **FCC ID: TK4-10-WLE200NX**

To whom it may concern,

Ambient Corporation will utilize Compex Wireless 802.11a/b/g/n network Mini PCIe adapter WLE200NX (FCC ID: TK4-10-WLE200NX) in its **X-320i-xxx and X-32MI** smart grid nodes and will connect the module to a new antenna (**Model AHAJ001002RA**). The specifications for this antenna are included in this filing under the exhibit type "Operational Description". The gains for this antenna are as follows:

-0.9 dBi net gain (after cable loss) in the frequency band of 2412 - 2462MHz and  
2.5 dBi net gain (after cable loss) in the frequency band of 5745.0 - 5825.0 MHz

Therefore Ambient Corporation submits this Class II permissive change application to add a new antenna to Compex Wireless 802.11a/b/g/n network Mini PCIe adapter WLE200NX (FCC ID: TK4-10-WLE200 NX).

Please be noted that Ambient Corporation will only utilize the DTS frequencies of this module. UNII band frequencies will not be used.

This application includes:

- Authorization Letter from Compex Systems Pte Ltd. to file for Class II permissive change
- MPE calculation to demonstrate RF exposure compliance with the new antenna
- Radiated Spurious Emission Test Report for X-320i smart grid node with the new antenna
- Specifications of the new antenna

Best regards

Aron Viner

A handwritten signature in black ink that reads "Aron S. Viner". The signature is written in a cursive, flowing style.

VP, Compliance & Standardization  
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