



July 15, 2013

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 and
FCC ID: N7NMC7750

To whom it may concern

Compex Wireless a/b/g/n network Mini PCIe adapter WLE200NX (FCC ID: TK4-10-WLE200NX) has FCC approval however Ambient has integrated this device into X-320e-xxx smart grid node and connected to different type antenna that has the following maximum gain:

- Tx/Rx antenna: 3.7 dBi in the frequency band 2412.0 – 2462.0 MHz and
4.3 dBi in the frequency band 5745.0 - 5825.0 MHz

Simultaneously, Sierra Wireless Multi –band radio module Model: MC7750 (FCC ID: N7NMC7750) has been also integrated into X-320e-xxx smart grid node and his transmitting antenna has collocated with Wi-Fi module transmitting antenna at the distance less than 20 cm. FCC Grant of Authorization for MC7750 module stated that in such case additional RF human exposure shall be needed. MC7750 antenna has the following maximum gain:

- a) 704 – 716 MHz: 1.5 dBi
- b) 777 - 787 MHz: -0.2 dBi
- c) 824 – 849 MHz: 0.5 dBi
- d) 880 – 915 MHz: 1.4 dBi
- e) 1710 – 1785 MHz: 1.6 dBi
- f) 1850 - 1910 MHz: 2.9 dBi

Therefore, according FCC Rules, Ambient Corporation submits Application for approval:

- antenna change for Compex Wireless a/b/g/n network Mini PCIe adapter WLE200NX (FCC ID: TK4-10-WLE200NX) and
- collocation for the transmitting antennas at distance less than 20cm from FCC ID: N7NMC7750 and FCC ID: TK4-10-WLE200NX
as Class II Permissive Change.

Application included:



Communications for a Smarter Grid

- Compex Authorization Letter
- Sierra Wireless Authorization Letters
- MPE calculation for the case when MC7750 module Tx/Rx antenna collocated with WLE200NX Tx/Rx antenna
- Form 731
- Radiated Spurious Emission Test Report for X-320e-xxx with WLE200NX issued by Curtis-Straus LLC.
- X-320e-xxx antenna spec

Please be noted that Ambient Corporation will only utilize the DTS frequencies of WLE200NX (FCC ID: TK4-10-WLE200NX) module. UNII band frequencies will not be used.

Best regards



Aron Viner
VP, Compliance & Standardization
Ambient Corporation
7 Wells, Avenue, Suite 11
Newton, MA 02459