

FCC ID: SK6XI-N450

FCC

July 3, 2012

To whom it may concern:

The enclosed documents constitute a formal submittal and application for Class II Permissive Change for a limited modular approval for a 3x3 MIMO 802.11abgn WLAN device pursuant to the following rules:

Subpart C of Part 15 of FCC Rules (CFR 47)
Subpart E of Part 15 of FCC Rules (CFR 47), UNII Devices

Approval for the module will be limited to installation in host systems manufactured by the applicant (Xirrus). The applicant is requesting that the grant notes allow co-location of multiple modules within a single host.

The module SK6XI-N300 is already granted for use two different host systems; one that supports 8 radios (original filing) and one that supports up to 16 radios (permissive change).

The testing included in this permissive change addresses co-locating 4 modules into the XR2000 and co-locating 2 modules in the XR1000.

Testing was limited to radiated spurious emissions and DFS. The module does not have a shield for the RF section and the host provides the DFS operation. In some cases, additional power measurements were performed due to reduced power levels required to comply with the spurious emissions requirements.

Compliance with power limits for the host system when operating with multiple radios in the same band was provided in the original certification and is included as reference in this permissive change.

Please note that the 2 transmit chains on the module always operate on the same channel. The host's system control is limiting operation of different modules to ensure the different modules operate on different, non-overlapping, channels.

Elliott Laboratories, as duly authorized agent prepared this submittal. A copy of the letter of our appointment as agent is included with the application.

If there are any questions or if further information is needed, please contact Elliott Laboratories for assistance.

For DFS testing, as the DS algorithms and control is in the host system we respectfully ask that this 2x2 module be evaluated by the FCC at the same time as the 3x3 module.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Hill".

Mark Hill
Staff Engineer
Elliott Labs – An NTS Company