

FCC ID: SK6XI-N450

FCC

January 10, 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. At this time they are requesting co-location of up to 16 modules in the same host system. RF exposure concerns related to multiple, co-located modules are addressed in the MPE calculation.

The module SK6XI-N450 is already granted for use in a host system that supports 8 radios. The testing included in this permissive change addresses co-locating up to 16 modules into a larger host system, the XR6000.

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. This approach was approved by the FCC in KDB 301059.

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 3 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.

This application covers use of the modules in the Xirrus XR6830, XR7230, and XR7630 host systems. These systems use the same enclosure and differ only in the number of modules they have installed (8 modules in the XR6830, 12 modules in the XR7230, and 16 modules in the XR7630).

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', is positioned above the printed name.

Mark Hill
Staff Engineer
Elliott Labs – An NTS Company