Compliance list INTEGRATION INSTRUCTIONS for 996369 D03 OEM the and 996369 D03 OEM by Sections 2.2 through 2.10.

| Requirement   | Yes | N/A   | Comment                                 |
|---|-----|-------|---|
| 2.2 List of applicable FCC rules  | YES | 11,71 | Refer to instruction                    |
| List the FCC rules that are applicable to the   | 123 |       | Neter to motification                   |
| modular transmitter. These are the rules that   |     |       | FCC standards: FCC CFR Title 47 Part 15 |
| specifically establish the bands of operation,  |     |       | Subpart C Section 15.247                |
| the power, spurious emissions, and operating  |     |       | 345part e 3eedon 13.217                 |
| fundamental frequencies. DO NOT list  |     |       |   |
| compliance to unintentional-radiator rules  |     |       |   |
| (Part 15 Subpart B) since that is not a   |     |       |   |
| condition of a module grant that is extended  |     |       |   |
| to a host manufacturer. See also Section 2.10   |     |       |   |
| below concerning the need to notify host  |     |       |   |
| •   |     |       |   |
| manufacturers that further testing is   |     |       |   |
| required.3  2.3 Summarize the specific operational use                                | YES |       | Refer to instruction                    |
| conditions  | TES |       |   |
|   |     |       | Integral antenna , Antenna gain 2dBi    |
| Describe use conditions that are applicable to the modular transmitter, including for |     |       |   |
| _   |     |       |   |
| example any limits on antennas, etc. For  |     |       |   |
| example, if point-to-point antennas are used  |     |       |   |
| that require reduction in power or  |     |       |   |
| compensation for cable loss, then this  |     |       |   |
| information must be in the instructions. If the                                       |     |       |   |
| use condition limitations extend to   |     |       |   |
| professional users, then instructions must  |     |       |   |
| state that this information also extends to the                                       |     |       |   |
| host manufacturer's instruction manual. In  |     |       |   |
| addition, certain information may also be   |     |       |   |
| needed, such as peak gain per frequency band  |     |       |   |
| and minimum gain, specifically for master   |     |       |   |
| devices in 5 GHz DFS bands.   |     | 21/2  | Alata a de la lata                      |
| 2.4 Limited module procedures   |     | N/A   | Not applicable                          |
| If a modular transmitter is approved as a "limited module," then the module           |     |       |   |
| manufacturer is responsible for approving the   |     |       |   |
| host environment that the limited module is   |     |       |   |
| used with. The manufacturer of a limited  |     |       |   |
| module must describe, both in the filing and in                                       |     |       |   |
| the installation instructions, the alternative  |     |       |   |
| means that the limited module manufacturer  |     |       |   |
| uses to verify that the host meets the necessary                                      |     |       |   |
| requirements to satisfy the module limiting   |     |       |   |
| conditions.   |     |       |   |
| A limited module manufacturer has the   |     |       |   |
| flexibility to define its alternative method to                                       |     |       |   |
| address the conditions that limit the initial   |     |       |   |
| approval, such as: shielding, minimum   |     |       |   |

|  | , |     |                |
|--|---|-----|----------------|
| signaling amplitude, buffered modulation/data      |   |     |                |
| inputs, or power supply regulation. The            |   |     |                |
| alternative method could include that the          |   |     |                |
| limited module manufacturer reviews detailed       |   |     |                |
| test data or host designs prior to giving the host |   |     |                |
| manufacturer approval.                             |   |     |                |
| This limited module procedure is also              |   |     |                |
| *  |   |     |                |
| applicable for RF exposure evaluation when it      |   |     |                |
| is necessary to demonstrate compliance in a        |   |     |                |
| specific host. The module manufacturer must        |   |     |                |
| state how control of the product into which the    |   |     |                |
| modular transmitter will be installed will be      |   |     |                |
| maintained such that full compliance of the        |   |     |                |
| product is always ensured. For additional hosts    |   |     |                |
| other than the specific host originally granted    |   |     |                |
| with a limited module, a Class II permissive       |   |     |                |
| change is required on the module grant to          |   |     |                |
| register the additional host as a specific host    |   |     |                |
| also approved with the module.                     |   |     |                |
| 2.5 Trace antenna designs                          |   | N/A | Not applicable |
| For a modular transmitter with trace antenna       |   | ,   |                |
| designs, see the guidance in Question 11 of        |   |     |                |
|  |   |     |                |
| KDB Publication 996369 D02 FAQ – Modules           |   |     |                |
| for Micro-Strip Antennas and traces. The           |   |     |                |
| integration information shall include for the      |   |     |                |
| TCB review the integration instructions for the    |   |     |                |
| following aspects: layout of trace design, parts   |   |     |                |
| list (BOM), antenna, connectors, and isolation     |   |     |                |
| requirements.4                                     |   |     |                |
|  |   |     |                |
| a) Information that includes permitted             |   |     |                |
| variances (e.g., trace boundary limits,            |   |     |                |
|  |   |     |                |
| thickness, length, width, shape(s), dielectric     |   |     |                |
| constant, and impedance as applicable for each     |   |     |                |
| type of antenna);                                  |   |     |                |
| b) Each design shall be considered a different     |   |     |                |
| type (e.g., antenna length in multiple(s) of       |   |     |                |
| frequency, the wavelength, and antenna shape       |   |     |                |
| (traces in phase) can affect antenna gain and      |   |     |                |
|  |   |     |                |
| must be considered);                               |   |     |                |
| c) The parameters shall be provided in a           |   |     |                |
| manner permitting host manufacturers to            |   |     |                |
| design the printed circuit (PC) board layout;      |   |     |                |
| design the printed eneart (1 %) sould layout,      |   |     |                |
| d) Appropriate parts by manufacturer and           |   |     |                |
| specifications;                                    |   |     |                |
| a) Test procedures for design weiting and          |   |     |                |
| e) Test procedures for design verification; and    |   |     |                |
| f) Production test procedures for ensuring         |   |     |                |

| compliance.   |     |   |
|---|-----|---|
| The module grantee shall provide a notice that any deviation(s) from the defined parameters of the antenna trace, as described by the instructions, require that the host product manufacturer must notify the module grantee that they wish to change the antenna trace design. In this case, a Class II permissive change application is required to be filed by the grantee, or the host manufacturer can take responsibility through the change in FCC ID (new application) procedure followed by a Class II permissive change application.   |     |   |
| 2.6 RF exposure considerations  | YES | Refer to instruction  |
| It is essential for module grantees to clearly and explicitly state the RF exposure conditions that permit a host product manufacturer to use the module. Two types of instructions are required for RF exposure information: (1) to the host product manufacturer, to define the application conditions (mobile, portable – xx cm from a person's body); and (2) additional text needed for the host product manufacturer to provide to end users in their end-product manuals. If RF exposure statements and use conditions are not provided, then the host product manufacturer is required to take responsibility of the module through a change in FCC ID (new application).                           |     | This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. |
| 2.7 Antennas  | YES | Refer to instruction  |
| A list of antennas included in the application for certification must be provided in the instructions. For modular transmitters approved as limited modules, all applicable professional installer instructions must be included as part of the information to the host product manufacturer. The antenna list shall also identify the antenna types (monopole, PIFA, dipole, etc. (note that for example an "omni-directional antenna" is not considered to be a specific "antenna type")). For situations where the host product manufacturer is responsible for an external connector, for example with an RF pin and antenna trace design, the integration instructions shall inform the installer that |     | Integral antenna , Antenna gain 2dBi  |

|   | , , , , , , , , , , , , , , , , , , , |  |
|---|---------------------------------------|--|
| unique antenna connector must be used on the      |                                       |  |
| Part 15 authorized transmitters used in the host  |                                       |  |
| product. The module manufacturers shall           |                                       |  |
| provide a list of acceptable unique connectors.   |                                       |  |
| 2.8 Label and compliance information              | YES                                   | Refer to instruction   |
| Grantees are responsible for the continued        |                                       | If the FCC identification number is not  |
| compliance of their modules to the FCC rules.     |                                       | visible when the module is installed inside  |
| This includes advising host product               |                                       | another device, then the outside of the  |
| manufacturers that they need to provide a         |                                       | device into which the module is installed  |
| physical or e-label stating "Contains FCC ID"     |                                       | must also display a label referring to the   |
| with their finished product. See Guidelines for   |                                       | enclosed module. This exterior label can   |
| Labeling and User Information for RF Devices –    |                                       | use wording such as the following:   |
| KDB Publication 784748.                           |                                       | "Contains Transmitter Module FCC ID:   |
| RDB Publication 764746.                           |                                       |  |
|   |                                       | 2AWMN-PTR5620P Or Contains FCC ID:   |
|   |                                       | 2AWMN-PTR5620P "   |
| 2.9 Information on test modes and additional      | YES                                   |  |
| testing requirementss                             |                                       | Refer to instruction   |
| Additional guidance for testing host products is  |                                       | Any company of the host device which   |
| given in KDB Publication 996369 D04 Module        |                                       | install this modular with modular approval   |
| Integration Guide. Test modes should take into    |                                       | should perform the test of radiated &  |
| consideration different operational conditions    |                                       | conducted emission and spurious  |
| for a stand-alone modular transmitter in a host,  |                                       | emission,etc. according to FCC part 15C :  |
| as well as for multiple simultaneously            |                                       | 15.247 and 15.209 &15.207 ,15B Class B   |
| transmitting modules or other transmitters in a   |                                       | requirement, Only if the test result comply  |
| host product.                                     |                                       | with FCC part 15C : 15.247 and 15.209  |
| The grantee should provide information on         |                                       | · ·  |
| how to configure test modes for host product      |                                       | &15.207 ,15B Class B requirement, then   |
| evaluation for different operational conditions   |                                       | the host can be sold legally.  |
| for a stand-alone modular transmitter in a host,  |                                       |  |
| versus with multiple, simultaneously              |                                       |  |
| transmitting modules or other transmitters in a   |                                       |  |
| host.   |                                       |  |
| Grantees can increase the utility of their        |                                       |  |
| modular transmitters by providing special         |                                       |  |
| means, modes, or instructions that simulates or   |                                       |  |
| characterizes a connection by enabling a          |                                       |  |
| transmitter. This can greatly simplify a host     |                                       |  |
| manufacturer's determination that a module as     |                                       |  |
| installed in a host complies with FCC             |                                       |  |
| requirements.                                     |                                       |  |
| 2.10 Additional testing, Part 15 Subpart B        | YES                                   | Refer to instruction   |
| disclaimer  |                                       | Any company of the host device which install this modular  |
|   |                                       | with modular approval should perform the test of radiated  |
| The grantee should include a statement that       |                                       | & conducted emission and spurious emission,etc.  |
| the modular transmitter is <b>only</b> FCC        |                                       | according to FCC part 15C: 15.247 and 15.209<br>&15.207,15B Class B requirement, Only if the test result |
| authorized for the specific rule parts (i.e., FCC |                                       | comply with FCC part 15C : 15.247 and 15.209   |
| transmitter rules) listed on the grant, and that  |                                       | &15.207,15B Class B requirement, then the host can be  |
| the host product manufacturer is responsible      |                                       | sold legally.  |
| the host product manufacturer is responsible      |                                       |  |

for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. If the grantee markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuity), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.6

When the module is installed inside another device, the user manual of the host must contain below warning statements;

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

for help.

- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/TV technician