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

| Sections 2.2 through 2.10. | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | D. / C | |
|--|---------------------------------------|--------|---|
| Requirement | Yes | N/A | Comment |
| 2.2 List of applicable FCC rules | YES | | Refer to instruction |
| List the FCC rules that are applicable to the | | | |
| 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 | | | |
| 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 | \/FC | | B.C. de la lada alla |
| 2.3 Summarize the specific operational use | YES | | Refer to instruction |
| conditions | | | |
| Describe use conditions that are applicable to | | | PCB antenna with antenna gain 0.49dBi |
| 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. | | | |
| 2.4 Limited module procedures | | N/A | Not applicable |
| If a modular transmitter is approved as a | | IN/ 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 | | | |
| approvai, such as. sinclumg, minimum | 1 | 1 | |

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| 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); | | |
| 1) Fort design dealth according to | | |
| 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 eneut (i c) board layout, | | |
| d) Appropriate parts by manufacturer | | |
| and specifications; | | |
| a) Tost proceedings for decise | | |
| e) Test procedures for design | | |
| verification; and | | |
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| f) Production test procedures for | | |
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| ensuring compliance. | | |
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| 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 | | This modular complies with FCC RF |
| that permit a host product manufacturer to | | radiation exposure limits set forth for an |
| use the module. Two types of instructions are | | uncontrolled environment. This transmitter |
| required for RF exposure information: (1) to | | must not be co-located or operating in |
| the host product manufacturer, to define the | | conjunction with any other antenna or |
| application conditions (mobile, portable – xx | | transmitter. |
| 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). | | |
| 2.7 Antennas | YES | Refer to instruction |
| A list of antennas included in the application | 113 | Neiel to instruction |
| for certification must be provided in the | | DCB antonna with antonna asia 0.40dB: |
| instructions. For modular transmitters | | PCB antenna with antenna gain 0.49dBi |
| 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 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 Grantees are responsible for the continued compliance of their modules to the FCC rules. This includes advising host product manufacturers that they need to provide a physical or e-label stating "Contains FCC ID" with their finished product. See Guidelines for Labeling and User Information for RF Devices – KDB Publication 784748. | YES | Refer to instruction If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: ZWY3008X Or Contains FCC ID: ZWY3008X" |
|---|-----|---|
| testing requirementss Additional guidance for testing host products is given in KDB Publication 996369 D04 Module Integration Guide. Test modes should take into consideration different operational conditions for a stand-alone modular transmitter in a host, as well as for multiple simultaneously transmitting modules or other transmitters in a host product. The grantee should provide information on how to configure test modes for host product evaluation for different operational conditions 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. | | Any company of the host device which install this modular with modular approval should perform the test of radiated & conducted emission and spurious emission,etc. according to FCC part 15C: 15.247 and 15.209 & 15.207,15B Class B requirement, Only if the test result comply with FCC part 15C: 15.247 and 15.209 & 15.207,15B Class B requirement, then the host can be sold legally. |
| 2.10 Additional testing, Part 15 Subpart B disclaimer The grantee should include a statement that the modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant, and that | YES | Refer to instruction Any company of the host device which install this modular with modular approval should perform the test of radiated & conducted emission and spurious emission,etc. according to FCC part 15C: 15.247 and 15.209 & 15.207,15B Class B requirement, Only if the test result comply with FCC part 15C: 15.247 and 15.209 & 15.207,15B Class B requirement, then the host can be 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.
- —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 for help.