

**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
<p><b>2.2 List of applicable FCC rules</b>            List the FCC rules that are applicable to the modular transmitter. These are the rules that specifically establish the bands of operation, 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.<sup>3</sup></p>	YES		Refer to instruction  FCC standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247
<p><b>2.3 Summarize the specific operational use conditions</b>            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.</p>	YES		Refer to instruction  The module is limited to the following antenna:  Antenna Type: Chip Antenna Antenna Gain: 0dBi
<p><b>2.4 Limited module procedures</b>            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</p>	NO		

<p>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.</p> <p>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.</p>			
<p><b>2.5 Trace antenna designs</b></p> <p>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.<sup>4</sup></p> <p>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);</p> <p>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);</p> <p>c) The parameters shall be provided in a manner permitting host manufacturers to design the printed circuit (PC) board layout;</p> <p>d) Appropriate parts by manufacturer and specifications;</p> <p>e) Test procedures for design verification; and</p>	<p><b>No</b></p>		

<p>f) Production test procedures for ensuring compliance.</p> <p>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.</p>		
<p><b>2.6 RF exposure considerations</b></p> <p>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).</p>	<p><b>YES</b></p>	<p>Refer to instruction</p> <p>The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device. This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located oroperating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.</p>
<p><b>2.7 Antennas</b></p> <p>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”)).</p> <p>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</p>	<p><b>YES</b></p>	<p>Refer to instruction</p> <p>The module is limited to the following antenna:</p> <p>Antenna Type: Chip Antenna Antenna Gain: 0dBi</p>

<p>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.</p>			
<p><b>2.8 Label and compliance information</b>  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.</p>	<p><b>YES</b></p>		<p>Refer to instruction</p> <p>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: 2A3WYID7 Or Contains FCC ID: 22A3WYID7”</p>
<p><b>2.9 Information on test modes and additional testing requirements</b></p> <p>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.</p> <p>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.</p> <p>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.</p>	<p><b>YES</b></p>		<p>Refer to instruction</p> <p>Any company of the host device which install this modular with limit modular approval should perform the test of radiated &amp; conducted emission and spurious emission, etc. according to FCC part 15C: 15.247 and 15.209 &amp; 15.207, 15B Class B requirement, Only if the test result comply with FCC part 15C: 15.247 and 15.209 &amp; 15.207, 15B Class B requirement , then the host can be sold legally.</p> <p>The module is installed in the host and can be transmitted independently.</p>
<p><b>2.10 Additional testing, Part 15 Subpart B disclaimer</b></p> <p>The grantee should include a statement that the modular transmitter is <b>only</b> FCC authorized for the specific rule parts (i.e., FCC</p>	<p><b>Yes</b></p>		<p>refer to instruction</p> <p>The module is installed in the host, and the host must be evaluated to comply with Part 15 Subpart B requirements</p>

<p>transmitter rules) listed on the grant, and that 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 circuitry), 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.<sup>6</sup></p>			
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