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	,	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		Refer to instruction
Describe use conditions that are applicable to			DCP antonna Antonna gain OdPi
the modular transmitter, including for			PCB antenna , Antenna gain 0dBi
_			
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	Not conficely a
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
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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;
d) Appropriate parts by manufacturer and
specifications;
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		PCB antenna , Antenna gain 0dBi

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 —	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:
KDB Publication 784748.		"Contains Transmitter Module FCC ID: : 2ABN2-BG22B1 Or Contains FCC ID: : 2ABN2-BG22B1"
2.9 Information on test modes and additional testing requirements	YES	Refer to instruction
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 modular with limit 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	YES	Refer to instruction
The grantee should include a statement that the modular transmitter is <b>only</b> FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant, and that the host product manufacturer is responsible		Any company of the host device which install modular with limit 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.

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  $\label{eq:connection} \begin{tabular}{ll} \hline \end{tabular}$
- which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help.