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	IV/A	Refer to instruction
List the FCC rules that are applicable to the	11.5		Nerer to instruction
modular transmitter. These are the rules that			FCC standards: FCC CFD Title 47 Part 15
			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			
2.3 Summarize the specific operational use	YES		Refer to instruction
conditions			
Describe use conditions that are applicable to			Antenna Type: monopole, PIFA, dipole
the modular transmitter, including for			Antenna
example any limits on antennas, etc. For			
example, if point-to-point antennas are used			Antenna Gain: less than 5dBi
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			
1			
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	Yes		Modular antennas can be used monopole,
If a modular transmitter is approved as a			PIFA, dipole Antenna, and the antenna gain
"limited module," then the module			is less than 5dBi.
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	1		
the installation instructions, the alternative			
means that the limited module manufacturer	1		
uses to verify that the host meets the necessary	1		
requirements to satisfy the module limiting			
conditions.			
A limited module manufacturer has the	1		
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		
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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	Yes	Yes, The module with trace antenna
For a modular transmitter with trace antenna		designs, and This manual has been shown
designs, see the guidance in Question 11 of		the layout
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KDB Publication 996369 D02 FAQ – Modules		of trace design,, antenna, connectors, and
for Micro-Strip Antennas and traces. The		isolation requirements
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;		
a) Test procedures for design		
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		
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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		The modular can be installed or integrated
that permit a host product manufacturer to		in mobile or fix devices only. This modular
use the module. Two types of instructions are		cannot be installed in any portable device.
required for RF exposure information: (1) to		This modular complies with FCC RF
the host product manufacturer, to define the		radiation exposure limits set forth for an
application conditions (mobile, portable – xx		uncontrolled environment. This transmitter
1		
cm from a person's body); and (2) additional		must not be co-located or operating in
text needed for the host product		conjunction with any other antenna or
manufacturer to provide to end users in their		transmitter. This modular must be installed
end-product manuals. If RF exposure		and operated with a minimum distance of
statements and use conditions are not		20 cm between the radiator and user body.
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		
for certification must be provided in the		Antenna Type: monopole, PIFA, dipole
instructions. For modular transmitters		Antenna
approved as limited modules, all applicable		Antenna Gain: less than 5dBi
professional installer instructions must be		7 intermite Gami less than sub-
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: 2ACOE-WG231 Or Contains FCC ID: 2ACOE-
			WG231 "
2.9 Information on test modes and additional	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			Any company of the host device which install this 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.
requirements.		No	and an experience of the second secon
2.10 Additional testing, Part 15 Subpart B		No	Refer to instruction
The grantee should include a statement that the modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC			The module without unintentional-radiator digital circuity, so the module does not require an evaluation by FCC Part 15 Subpart B. The host shoule be evaluated by

transmitter rules) listed on the grant, and that		the FCC Subpart B.
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		