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.	1	ı	T
Requirement	Yes	No	Comment
2.2 List of applicable FCC rules	X		Page 79-80 of user manual
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.3			
2.3 Summarize the specific operational use	Х		Page 79-80 of user manual
conditions	^		Page 79-80 of user manual
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.			
2.4 Limited module procedures		Х	NA
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	X	NA
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		
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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.		
Class if permissive change application.		
2.6 RF exposure considerations	X	Page 79-80 of user manual
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).		
2.7 Antennas	Х	Page 79-80 of user guide
A list of antennas included in the application		and to or or or garde
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		
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	х	Page 79- 80 of user manual
Grantees are responsible for the continued	^	rage 75 66 of asci manaar
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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.		
2.9 Information on test modes and additional	Х	Dago 70 90 of usor manual
	^	Page 79-80 of user manual.
testing requirements		Test report SAR.20190104
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.		
2.10 Additional testing, Part 15 Subpart B	Х	Declared in manual page 79
disclaimer		
The grantee should include a statement that		
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		
the host product manufacturer is responsible		
for compliance to any other FCC rules that		
in the phanes to any other recorded that	<u> </u>	

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		