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.			
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
specifically establish the bands of operation,			15 Subpart C Section 15.247 and FCC
the power, spurious emissions, and operating			CFR Title 47 Part 15 Subpart E
fundamental frequencies. DO NOT list			Section15.407: 2016 and FCC CFR Title
compliance to unintentional-radiator rules			
(Part 15 Subpart B) since that is not a			47 Part 2/ FCC CFR Title 47 Part22
condition of a module grant that is extended			/ FCC CFR Title 47 Part24/ FCC CFR Title
to a host manufacturer. See also Section 2.10			47 Part27/ FCC CFR Title 47 Part90
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			The antenna gain of the module is as
Describe use conditions that are applicable to			
the modular transmitter, including for			following:
example any limits on antennas, etc. For			Gain: BT/2.4G Wifi 2.2dBi, 5G wifi 2.52dBi,
example, if point-to-point antennas are used			GSM/GPRS/EGPRS 850: 3.52dBi,
that require reduction in power or			GSM/GPRS/EGPRS 1900: 3.58dBi, WCDMA
compensation for cable loss, then this			Band V: 3.52dBi, WCDMA Band II: 3.58dBi,
information must be in the instructions. If the			LTE Band 2:
use condition limitations extend to			3.58dBi, LTE Band 4: 4.00dBi, LTE Band 5:
professional users, then instructions must			3.52dBi, LTE Band 7: 5.19dBi, , LTE Band 25:
state that this information also extends to the			3.58dBi, LTE Band 66: 4.00dBi
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			The Module without antenna
If a modular transmitter is approved as a	Yes		The Module without antenna
"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			
approvar, such as. sinclumg, 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 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	No	
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		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. This modular must be installed
cm from a person's body); and (2) additional		and operated with a minimum distance of
text needed for the host product		20 cm between the radiator and user body.
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		The antenna gain of the module is as
for certification must be provided in the		
instructions. For modular transmitters		following:
approved as limited modules, all applicable		Gain: BT/2.4G Wifi 2.2dBi, 5G wifi 2.52dBi,
professional installer instructions must be		GSM/GPRS/EGPRS 850: 3.52dBi,
included as part of the information to the host		GSM/GPRS/EGPRS 1900: 3.58dBi, WCDMA
product manufacturer. The antenna list shall		Band V: 3.52dBi, WCDMA Band II: 3.58dBi,
also identify the antenna types (monopole,		LTE Band 2: 3.58dBi, LTE Band 4: 4.00dBi,
PIFA, dipole, etc. (note that for example an		LTE Band 5: 3.52dBi, LTE Band 7: 5.19dBi,
"omni-directional antenna" is not considered to		LTE Band 25: 3.58dBi, LTE Band 66: 4.00dBi
be a specific "antenna type")).		LIE Balla 25. 5.36abi, ETE Balla 00. 4.00abi
For situations where the host product		
manufacturer is responsible for an external		
<u> </u>		
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: 2APJ4-SLM550"
2.9 Information on test modes and additional	YES		Refer to instruction
testing requirements	11.3		Refer to mistraction
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 installs this modular with unlimited modular approval should perform the test of radiated & conducted emission and spurious emission, etc. according to FCC CFR Title 47 Part 15 Subpart C Section 15.247 and FCC CFR Title 47 Part 15 Subpart E Section15.407: 2016 and FCC CFR Title 47 Part 2/ FCC CFR Title 47 Part22/ FCC CFR Title 47 Part24/ FCC CFR Title 47 Part27/ FCC CFR Title 47 Part90, 15B Class B requirement, only if the tests result comply with standards requirement, then the host can be sole legally The module is installed in the host and can be transmitted independently.
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 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		Yes	Refer to instruction The module is installed in the host, and the host must be evaluated to comply with Part 15 Subpart B requirements

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		

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