KDB996369 Check List

FCC ID: AK8M19DFR1 Applicant: Sony Corporation

This transmitter complies with KDB996369 D03 as indicated below:

Modular approval requirement	Applicable	Not Applicable
2.2 List of applicable FCC rules		
List the FCC rules that are applicable to the modular transmitter.		
These are the rules that specifically establish the bands of	Please refer to	
operation, the power, spurious emissions, and operating	Interface	
fundamental frequencies. DO NOT list compliance to	Specification.	
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.		
2.3 Summarize the specific operational use conditions	X	
Describe use conditions that are applicable to the modular		
transmitter, including for example any limits on antennas, etc. For	Please refer to	
example, if point-to-point antennas are used that require reduction	Interface	
in power or compensation for cable loss, then this information	Specification.	
must be in the instructions. If the use condition limitations extend	1	
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		П
If a modular transmitter is approved as a "limited module," then the		
module manufacturer is responsible for approving the host	Please refer to LMA	
environment that the limited module is used with. The	Letter and Interface	
manufacturer of a limited module must describe, both in the filing	Specification.	
and in the installation instructions, the alternative means that the	- F	
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	
For a modular transmitter with trace antenna designs, see the	
guidance in Question 11 of KDB Publication 996369 D02 FAQ – Please refer to	
Modules for Micro-Strip Antennas and traces. The integration Interface	
information shall include for the TCB review the integration Specification.	
instructions for the following aspects: layout of trace design, parts	
list (BOM), antenna, connectors, and isolation requirements.	
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	
It is essential for module grantees to clearly and explicitly state the	
RF exposure conditions that permit a host product manufacturer to Please refer to	
use the module. Two types of instructions are required for RF Interface	
exposure information: (1) to the host product manufacturer, to Specification.	
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	
A list of antennas included in the application for certification must	
be provided in the instructions. For modular transmitters approved Please refer to	
as limited modules, all applicable professional installer Interface	
instructions must be included as part of the information to the host Specification.	
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")).	
antenna type)).	
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For situations where the host product manufacturer is responsible	
For situations where the host product manufacturer is responsible for an external connector, for example with an RF pin and antenna	
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	
For situations where the host product manufacturer is responsible for an external connector, for example with an RF pin and antenna	

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	Please refer to	
manufacturers that they need to provide a physical or e-label	Interface	
stating "Contains FCC ID" with their finished product.	Specification.	
2.9 Information on test modes and additional testing		П
requirements		
Additional guidance for testing host products is given in KDB	Please refer to	
Publication 996369 D04 Module Integration Guide. Test modes	Interface	
should take into consideration different operational conditions for	Specification.	
a stand-alone modular transmitter in a host, as well as for multiple	- F	
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 disclaimer	\boxtimes	
The grantee should include a statement that the modular		
transmitter is only FCC authorized for the specific rule parts (i.e.,	Please refer to	
FCC transmitter rules) listed on the grant, and that the host product	Interface	
manufacturer is responsible for compliance to any other FCC rules	Specification.	
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.		