KDB996369 Check List

FCC ID: DV8TMX100

Applicant: Fukuda Denshi Co Ltd

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 Theory	
operation, the power, spurious emissions, and operating of	
fundamental frequencies. DO NOT list compliance to Operation-Interface	
unintentional-radiator rules (Part 15 Subpart B) since that is not a Specification.	
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	
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	
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 applies his for RE averaging.	
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		\boxtimes
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.		
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.	N7	
application. 2.6 RF exposure considerations		
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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 User	
manufacturers that they need to provide a physical or e-label	Manual.	
stating "Contains FCC ID" with their finished product.		
2.9 Information on test modes and additional testing		
requirements		
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 disclaimer		\boxtimes
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 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.		