KDB996369 Check List

FCC ID: WJ6ICM0M002A-M

Applicant: NIDEC SANKYO 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 User	
operation, the power, spurious emissions, and operating	Manual	
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.		
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 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.		

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I	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.		
	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;		
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	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.		
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	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		
	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		
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2.8 Label and compliance information	\boxtimes	
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		\boxtimes
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		
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.		