

SKYLAB SKW17 Wi-Fi Module Instructions

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INTEGRATION INSTRUCTIONS

Requirement	Yes	N/A	Comment
2.2 List of applicable FCC rules List the FCC rules that are applicable to the mo dular transmitter. These are the rules that specifically establish the bands of operation, the power, spurious emissions, and operating fun damental 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	YES		Refer to instruction FCC standards: FCC CFR Title 47 Part 15 S ubpart C Section 15.247
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, specific ally for master devices in 5 GHz DFS bands.	YES		Refer to instruction The module is limited to the following antenn a: Antenna Type: External Antenna Antenna G ain: 1.8dBi
2.4 Limited module procedures If a modular transmitter is approved as a "limite d module," then the module manufacturer is responsible for approving the h ost environment that the limited module is used with. The manufacturer of a limited module mus t describe, both in the filing and in the installatio n 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	No		

odular transmitter will be installed will be maintained such that full compliance of the pro duct is always ensured. For additional hosts oth er than the specific host originally granted with a limited module, a Class II permissive change is required on the module grant to register the a dditional host as a specific host also approved with the module.

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2.5 Trace antenna designs		
For a modular transmitter with trace antenna designs, see the guidance in Question 11 of KD B 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 variance s (e.g., trace boundary limits, thickness, length, width, shape(s), dielectric constant, and impeda nce as applicable for each type of antenna);	No	
b) Each design shall be considered a different t ype (e.g., antenna length in multiple(s) of frequ ency, the wavelength, and antenna shape (trac es in phase) can affect antenna gain and must be considered);		
c) The parameters shall be provided in a mann er 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 use the module. Two types of instructions are required f or 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 te xt 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).		Refer to instruction The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device. This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located oroperating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.
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2.7 Antennas A list of antennas included in the application 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 manufacture r. 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 manufact urer is responsible for an external connector, for example with an RF pin and antenna trace design, the integration	YES	Refer to instruction The module is limited to the following antenn a: Antenna Type: External Antenna Antenna G ain: 1.8dBi
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 Grant ees are responsible for the continued compliance of their modules to the FCC rules. This includes advising host product manufactur ers that they need to provide a physical or elabel stating "Contains FCC ID" with their finish ed product. See Guidelines for Labeling and Us er Information for RF Devices – KDB Publication 784748.	YES	visible when the nother device, nto which the redisplay a label ule. This exterior as the following	ntification number is not ne module is installed inside a then the outside ofthe device is module is installed must also referring to the enclosed mod or label can use wording such g: "Contains Transmitter Modu COE-SKW17 Or Contains FC	
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2.9 Information on test modes and additiona I testing requirements5

Additional guidance for testing host products is given in KDB Publication 996369 D04 Module I ntegration Guide. Test modes should take into c onsideration 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 evaluat ion for different operational conditions for a stan d-alone modular transmitter in a host, versus with multiple, simultaneously transmitting module s or other transmitters in a host.

Grantees can increase the utility of their modul ar transmitters by providing special means, mo des, or instructions that simulates or characteri zes 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.

Refer to instruction

Any company of the host device which instal I this modular with limit modular approval should perform the test ofradiated & conducted emission and spurious emission, etc. according to FCC part 15C: 15.247 and 15.209 &15.207, 15B

Class B requirement, Only if the test result c omply with FCC part 15C: 15.247 and

15.209 &15.207, 15B Class B requirement then the host can be sold legally.

The module is installed in the host and can be transmitted independently.

YES

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	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
transmitter rules) listed on the grant, and that the host product manufacturer is responsible for c		
ompliance 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.6		

Documents / Resources



SKYLAB SKW17 Wi-Fi Module [pdf] Instructions SKW17, 2ACOE-SKW17, 2ACOESKW17, SKW17 Wi-Fi Module, SKW17, Wi-Fi Module

