OEM Installation Guidance Document

For HP SNPRC-1950

FCC ID: B94SNPRC1950; IC: 466S-SNPRC1950

Conditions on using HP regulatory approvals:

A. Customer must ensure that its product (the “Brand-Name-Product”) is electrically identical to REALTEK’s reference designs. Customer acknowledges that any modifications to REALTEK’s reference designs may invalidate regulatory approvals in relation to the customer product, or may necessitate notifications to the relevant regulatory authorities.

B. Customer is responsible for ensuring that antennas used with the product are of the same type, with same or lower gains as approved and providing antenna reports to REALTEK.

C. Customer is responsible for regression testing to accommodate changes to REALTEK’s reference designs, new antennas, and portable RF exposure safety testing/approvals.

D. Appropriate labels must be affixed to the customer Product that complies with applicable regulations in all respects.

E. The REALTEK radio is approved as a client/slave device; to ensure compliance with local regulations, the device should be set to the country domain in which the access point is installed.

F. A user’s manual or instruction manual must be included with the customer product that contains the text as required by applicable law. Without limitation of the foregoing, an example (for illustration purposes only) of possible text to include is set forth below:

1. **USA—Federal Communications Commission (FCC)**

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INFORMATION TO USER:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna

-Increase the distance between the equipment and the receiver.

-Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

System integrators must include the FCC ID on the end product.

FCC Radio-Frequency Exposure & Approval Conditions:

- For Mobile applications, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.
- The antenna(s) used for this transmitter must not be collocated or operating in conjunction with any other antenna or transmitter within a host device, except in accordance with FCC multi-transmitter product procedures.
- Only those antennas with the same type and lesser gain filed under this FCC ID number can be used with this device.
- The regulatory label on the final system must include the statement: "Contains FCC ID: B94SNPRC1950 ".

- The final system integrator must ensure there is no instruction provided in the user manual or customer documentation indicating how to install or remove the transmitter module except such device has implemented two-ways authentication between the module and the host system.
- The final host manual shall include the following regulatory statement: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:
  -Reorient or relocate the receiving antenna
  -Increase the distance between the equipment and the receiver.
  -Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
  -Consult the dealer or an experienced radio/TV technician for help. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This transmitter is tested in a standalone mobile RF exposure condition and any co-located or simultaneous transmission with other transmitter(s) or portable use will require a separate class II permissive change re-evaluation or new certification.
- This transmitter module is tested as a subsystem (module) and its certification does not cover the FCC Part 15 Subpart B (unintentional radiator) rule requirement applicable to the final host. The final host will still need to be reassessed for compliance to this portion of rule requirements if applicable.

2. Canada -Industry Canada (IC)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

French:
Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). L‘utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l’ utilisateur du dispositif doit étre prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible
de compromettre le fonctionnement du dispositif.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

French:
Sous la réglementation d'Industrie Canada, ce transmetteur radio ne peut fonctionner en utilisant une antenne d'un type et un maximum (ou moins) gain approuvées pour l'émetteur par Industrie Canada. Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisis de manière que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est necessaire pour une communication réussie
.
This radio transmitter, IC ID: 466S-SNPRC1950, has been approved by Industry Canada to operate with the onboard antenna or a detachable WLAN antenna with a maximum gain listed below. The required antenna impedance is 50 ohms.

French:
Cet émetteur radio, IC ID: 466S-SNPRC1950, a été approuvé par Industrie Canada pour fonctionner avec l'antenne intégrée ou une antenne amovible PIFA avec un gain maximum de ci-dessous. L'impédance d'antenne requise est de 50 ohms.

This transmitter module is tested as a subsystem (module) and its certification does not cover RSS-Gen (unintentional radiator) rule requirement applicable to the final host. The final host will still need to be reassessed for compliance to this portion of rule requirements if applicable.

French:
Ce module émetteur est testé en tant que sous-système (module) et sa certification ne couvre pas les exigences de la règle RSS-Gen (radiateur non intentionnel) applicables à l'hôte final. Le dernier hôte devra toujours être réévalué pour la conformité à cette partie des exigences de la règle, le cas échéant.

This transmitter module is tested as a subsystem (module) and its certification does not cover the FCC Part 15 Subpart B (unintentional radiator) rule requirement applicable to the final host. The final host will still need to be reassessed for
compliance to this portion of rule requirements if applicable.

French:
Ce module émetteur est testé en tant que sous-système (module) et sa certification ne couvre pas l'exigence de la règle FCC Partie 15, Sous-partie B (radiateur non intentionnel) applicable à l'hôte final. Le dernier hôte devra toujours être réévalué pour
le respect de cette partie des exigences de la règle, le cas échéant.

Table for Filed Antenna
Antenna table

Internal Antenna						
Antenna No.	Brand	Model	Ant. Net Gain (dBi)	Frequency range (GHz)	Antenna Type	Connector Type
1	HP Inc.	SNPRC-1950	3.5	2.4-2.5	PCB	None
			4.5	5-6		
External Antenna						
2	Yageo	ANTX300P002B24553	0.9	2.4-2.5	PCB	i-pex(MHF)
			2.3	5.150-5.875		
3	Pulse	SZ0595D	2.5	2.4-2.5	PIFA	i-pex(MHF)
			3	4.9-5.9		
4	Yageo	ANTX200P002B24553	0.9	2.4-2.5	PCB	i-pex(MHF)
			2.3	5.150-5.875		
5	Pulse	SZ07751	2.5	2.4-2.5	PIFA	i-pex(MHF)
			3	4.9-5.9		

Caution: Exposure to Radio Frequency Radiation.
To comply with RSS 102 RF exposure compliance requirements, for mobile configurations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

French:
Pour se conformer auxexigences de conformité 102 RSS RF exposition, pour des configurations mobiles, une distance de separation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes. Cet appareil ne doit pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur.

System integrators must include a label with “Contains IC: 466S-SNPRC1950” on the end product. Industry Canada user statements should be provided in both English and French, at the time each product is offered for sale or lease in Canada.

French:
Les intégrateurs de systèmes doivent comporter une étiquette avec “Contient IC: 466S-SNPRC1950" sur le produit final. Comptes d'utilisateur d'Industrie Canada devraient être fournis en ang lais et en français, au moment où chaque produit est offert à la vente ou la location au Canada.

This transmitter is tested in a standalone mobile RF exposure condition and any co-located or simultaneous transmission with other transmitter(s) or portable use will require a separate class II permissive change re-evaluation or new certification.

French:
Cet émetteur est testé dans des conditions d'exposition à des radiofréquences mobiles autonomes et toute transmission simultanée ou simultanée avec un autre émetteur ou une utilisation portable nécessitera une réévaluation distincte des modifications de classe II ou une nouvelle certification.

As per RSS-247, Issue 2
Operation in the 5150-5250MHz is for indoor use only to reduce the potential for harmful interference to co-channel mobile satellite systems

Users should be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350MHz and 5650-5850MHz and that these radars could cause interference and/or damage to LE-LAN devices.

French:
Comme par RSS - 247, Issue 2
Opération dans le 5150-5250MHz est pour usage intérieur seulement de réduire le risque d'interférences nuisibles à la co-canal systèmes mobiles par satellite

Utilisateurs estimé qu'il devrait être radars à haute puissance sont désignés comme utilisateurs principaux (c. utilisateurs prioritaires) des bandes 5250-5350MHz et 5650-5850MHz Ces radars et qui pourraient provoquer des interférences et / ou endommager les appareils LE-LAN.

3. Japan Statement
Host system must be labeled with "Contains MIC ID:xxxxxx*“*, MIC ID displayed on label.
5GHz band (W52, W53): Indoor use only.