

## Regulatory Information (User Guide addendum):

Neocortec modules NC2400C and NC2400P have been tested to comply with FCC part 15.247 "Intentional Radiators". The devices meet the requirements for modular transmitter approval.

### Federal Communication Commission Statement (FCC, U.S.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the 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 and, if not installed and used in accordance with the instructions, 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 to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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.

### FCC Caution:

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

## IMPORTANT NOTES

### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

### Limited Channels:

The frequencies channels are permanently fixed in the device and cannot be changed by the end user or integrator.

### OEM integration instructions:

This device is intended only for OEM integrators under the following conditions:

The antenna must be installed such that 20 cm is maintained between the antenna and users, and the transmitter module may not be co-located with any other transmitter or antenna. The module shall be only used with the external antenna(s) that has been originally tested and certified with this module.

As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

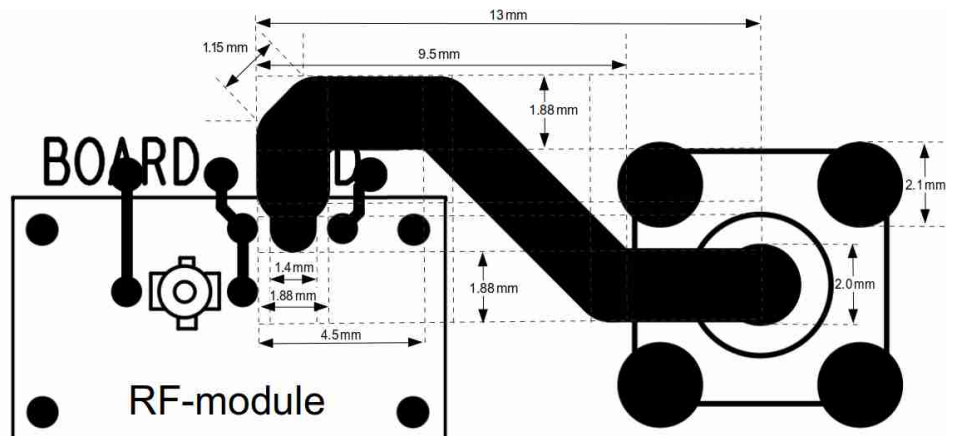
### Host Integration:

The NC2400C or NC2400P module can be integrated into a finished product without obtaining subsequent FCC approvals for intentional radiators provided that the instructions for integration is followed and that the host device does not contain multiple transmitter modules, however at all times, the integrator must ensure that the module remains compliant to part 15C while installed in the finished product, including compliance with any possible additional requirements, such as digital device emissions, PC peripheral requirements, etc. The approved antenna must be installed as such that 20 cm distance can be maintained between the antenna and user of the finished product.

Approved antenna: Antenova Titanis 2.4 GHz Swivel, with a gain of 2.2 dBi.

### Antenna trace buildup for NC2400P, as test print (interposer) mask shown:

1. RF-trace must nominal be 50Ω, and be routed directly away from module. Connect the 2 ground pins via holes, directly to bottom side ground.
2. Track: topside 1.88mm wide; 35μ thick
3. Isolation, PCB core: 1.0mm Tg=150°
4. Bottom: plane, solid copper.
5. Through hole for SMA antenna connector: Molex 0733910060
6. As design verification, quick-scan the radiated emissions to 15.205 / 15.209 for lower and higher channel.
7. In production, verify for 1 sample per batch if the conducted RF-output power to 15.247(b) is 2–3 dBm, indicating that all RF-energy is fed to the antenna.



**Validity of using the module certification:**

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization for this module in combination with the host equipment is no longer considered valid and the FCC ID of the module cannot be used on the final product. In these circumstances, the OEM integrator

will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

Custom design antennas may be used, however the OEM installer must follow the FCC 15.21 requirements and verify if new FCC approval will be necessary.

**End product labeling:**

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID: 2AB76NC2400C1".

**Information that must be placed in the end user manual:**

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as shown in this manual.

**ISED CANADA (IC, Canada, EN)**

This device complies with Industry Canada licence-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."

The final end product must be labeled in a visible area with the following:  
"Contains Transmitter Module IC: 11904A-NC2400C1".

The antenna must be installed such that 20 cm is maintained between the antenna and users, and the transmitter module may not be co-located with any other transmitter or antenna.

**ISED CANADA (IC, Canada, FR)**

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

Le produit final doit être étiqueté dans un endroit visible par le texte suivant:  
"Contient Module émetteur IC: 11904A-NC2400C1".

L'antenne doit être installée de telle sorte que 20 cm est maintenue entre l'antenne et les utilisateurs, et le module émetteur peut ne pas être co-localisés avec tout autre émetteur ou antenne.