

REGULATORY COMPLIANCE

United States of America

Federal Communications Commission (FCC)

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

This device complies with Parts 22/24/27 of the FCC Rules.

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Installation/Integration

This above identified radio module is not intended to be provided to end-users but is for installation by OEM integrators only.

Sequans's module integration guidelines must be closely followed.

Compliance of host integrations of the module is limited to hosts adaptation designs which are identical to the reference design.

Host integrations with adaption designs deviating from the reference design require either filing a Class 2 Permissive Change to this modular approval or separate approval for the end-Product under its own FCC ID.

Host integrations with co-located (simultaneously operating) radio transmitters must be evaluated in accordance with FCC multi-transmitter rules and may require either filing a Class 2 Permissive Change to this modular approval or separate approval for the end-Product under its own FCC ID. Dependent on the result of the evaluation.

An inquiry to the FCC or a TCB is urgently recommended.

RF exposure safety

This module complies with the FCC RF exposure limits and has been evaluated in compliance with mobile (> 20 cm) exposure conditions.

End-product RF exposure safety

Integrations of this module into end-products which are intended for portable use, i.e. less than 20 cm distance between its radiating structures (antenna) and the body of nearby persons, or which otherwise put additional technical requirements, like Hearing Aid compatibility, require / may require SAR testing of the end-product and potentially filing a Class 2 Permissive Change to this modular approval or separate approval for the end-Product under its own FCC ID.

All transmitters regulated by FCC must comply with RF exposure requirements as per **KDB 447498 General RF Exposure Guidance** which provides guidelines in determining whether proposed or existing transmitting facilities, operations or devices comply with limits for human exposure to Radio Frequency (RF) fields adopted by the Federal Communications Commission (FCC).

An inquiry to the FCC or a TCB is urgently recommended.

Antennas

This radio transmitter has been tested and approved by the FCC to operate with the antennae listed below:

- Taoglas Phoenix II - GSA.8835.A.101111

To comply with both the FCC maximum EIRP limits and with RF Exposure rules, the maximum antenna gain for the operation bands in mobile conditions are:

Band	Frequency range	Gain
B25	1850 - 1915 MHz	9.0 dBi
B2	1850 - 1910 MHz	9.0 dBi
B66	1710 - 1780 MHz	6.0 dBi
B4	1710 - 1755 MHz	6.0 dBi
B5	824 - 849 MHz	10.41 dBi
B12	699 - 716 MHz	9.70 dBi
B13	777 - 787 MHz	10.16 dBi
B41	2496 - 2690	9.0 dBi
B38	2570 - 2620	9.0 dBi

The use of an antenna having a gain greater than the above indicated in any of those specified band is strictly prohibited.

Compliance with FCC rule part 15B

Note: 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 or more 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.

End-product compliance with FCC rule part 15B (Unwanted Emission Limits for Digital Device)

If the OEM of the end-product fully complies with the above described reference design, they can inherit and rest on the existing modular approval for RF compliance.

The OEM of the end-product remains still responsible to show compliance of the overall end-product with the FCC limits for unwanted conducted and radiated emissions from the digital device (unintentional radio) portion of such end-product (commonly addressed as part 15B compliance or similar).

End-product Labelling

The module's FCC ID must either be visible from the exterior of the end-product (e.g. per window) or per electronic display, or shall be displayed on an additional exterior label per the following or similar string:

Contains FCC ID: XPYUBX24AD02

Further labelling requirements may apply depending on the FCC rule parts relevant to the end-product.

End-product 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 user manual of the end-product shall include all the applicable regulatory information/warnings.

Canada

Innovation, Science and Economic Development Canada's (ISED) - English

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

This device complies with the following ISED's Radio Standards Specifications:

- RSS-Gen - General Requirements for Compliance of Radio Apparatus
- RSS-130 - Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz
- RSS-132 - Cellular Systems Operating in the Bands 824-849 MHz and 869-894 MHz
- RSS-133 - Personal Communications Service Equipment Operating in the Bands 1850-1915 MHz and 1930-1995 MHz
- RSS-139 - Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2200 MHz
- RSS-199 - Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz

Installation/Integration

This above identified radio module is not intended to be provided to end-users but is for installation by OEM integrators only. The integration guidelines must be closely followed.

Compliance of host integrations of the module is limited to hosts adaptation designs which are identical to the reference design.

Host integrations with adaption designs deviating from the reference design require either filing a Class 2 Permissive Change to this modular approval or separate approval for the end-Product under its own IC.

Host integrations with co-located (simultaneously operating) radio transmitters must be evaluated in accordance with ISED multi-transmitter rules and may require either filing a Class 2 Permissive Change to this modular approval or separate approval for the end-Product under its own IC. Dependent on the result of the evaluation.

An inquiry to the ISED or an FCB is urgently recommended.

RF exposure safety

This module complies with the ISED RF exposure limits, RSS-102, and has been evaluated in compliance with mobile (> 20 cm) exposure conditions.

End-product RF exposure safety

Integrations of this module into end-products which are intended for portable use, i.e. less than 20 cm distance between its radiating structures (antenna) and the body of nearby persons, or which otherwise put additional technical requirements, like Hearing Aid compatibility, require / may require SAR testing of the end-product and potentially filing a Class 2 Permissive Change to this modular approval or separate approval for the end-Product under its own IC.

All transmitters regulated by ISED must comply with RF exposure requirements as per ***RSS-102 — Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)***.

This document provides guidance in determining whether proposed or existing transmitting facilities, operations or devices comply with limits for human exposure to Radio Frequency (RF) fields adopted by the ISED.

An inquiry to the ISED or an FCB is urgently recommended.

Antennas

This radio transmitter has been tested and approved by the ISED to operate with the antennae listed below:

- Taoglas Phoenix II - GSA.8835.A.101111

To comply with both the ISED maximum EIRP limits and with RF Exposure rules, the maximum antenna gain for the operation bands in mobile conditions are:

Band	Frequency range	Gain
B25	1850 - 1915 MHz	9.0 dBi
B2	1850 - 1910 MHz	9.0 dBi
B66	1710 - 1780 MHz	6.0 dBi
B4	1710 - 1755 MHz	6.0 dBi
B5	824 - 849 MHz	7.12 dBi
B12	699 - 716 MHz	6.63 dBi
B13	777 - 787 MHz	6.95 dBi
B41	2496 - 2690	9.0 dBi
B38	2570 - 2620	9.0 dBi

The use of an antenna having a gain greater than the above indicated in any of those specified band is strictly prohibited.

Compliance with Interference-Causing Equipment Standard

This Class B digital apparatus complies with ISED's Interference-Causing Equipment Standard ICES-003.

End-product compliance with Interference-Causing Equipment Standard

If the OEM of the end-product fully complies with the above described reference design, they can inherit and rest on the existing modular approval for RF compliance.

The OEM of the end-product remains still responsible to show compliance of the overall end-product with the applicable Interference-Causing Equipment Standards issued by the ISED.

End-product Labelling

The module's IC must either be visible from the exterior of the end-product (e.g. per window) or per electronic display, or shall be displayed on an additional exterior label per the following or similar string:

Contains IC: 8595A-UBX24AD02

Further labelling requirements may apply depending on the applicability of other Radio Standard Specifications relevant to the end-product.

End-product 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 user manual of the end-product shall include all the applicable regulatory information/warnings.

Innovation, Sciences et Développement économique Canada (ISDE) - Français

Les changements ou modifications non expressément approuvés par la partie responsable de la conformité peuvent annuler l'autorisation de l'utilisateur à utiliser l'équipement.

Cet appareil est conforme aux spécifications des normes radio ISDE suivantes :

- CNR-Gen - Exigences générales relatives à la conformité des appareils de radiocommunication
- CNR-130 - Matériel fonctionnant dans les bandes 617-652 MHz, 663-698 MHz, 698-756 MHz et 777-787 MHz
- CNR-132 - Systèmes cellulaires fonctionnant dans les bandes de 824 à 849 MHz et de 869 à 894 MHz
- CNR-133 - Matériel de service de communications personnelles fonctionnant dans les bandes de 1 850 à 1 915 MHz et de 1 930 à 1 995 MHz
- CNR-139 - Matériel des services sans fil évolués fonctionnant dans les bandes de 1710 à 1780 MHz et de 2110 à 2200 MHz
- CNR-199 - Matériel du service radio à large bande (SRLB) fonctionnant dans la bande 2500-2690 MHz

Installation/Intégration

Ce module radio identifié ci-dessus n'est pas destiné à être fourni aux utilisateurs finaux, mais est destiné à être installé uniquement par des intégrateurs OEM. Les directives d'intégration doivent être suivies de près.

La conformité des intégrations hôtes du module est limitée aux conceptions d'adaptation des hôtes qui sont identiques à la conception de référence.

Les intégrations hôtes avec des conceptions d'adaptation s'écartant de la conception de référence nécessitent soit le dépôt d'une modification permissive de classe 2 à cette approbation modulaire, soit une approbation distincte pour le produit final sous son propre CI.

Les intégrations hôtes avec des émetteurs radio colocalisés (fonctionnant simultanément) doivent être évaluées conformément aux règles multi-émetteurs ISDE et peuvent nécessiter soit le dépôt d'une modification permissive de classe 2 à cette approbation modulaire, soit une approbation distincte pour le produit final sous son propre CI. Cela dépend du résultat de l'évaluation.

Une demande de renseignements auprès de l'ISDE ou d'un FCB est recommandé de toute urgence.

Sécurité d'exposition aux RF

Ce module est conforme aux limites d'exposition aux RF de l'ISDE, CNR-102, et a été évalué conformément aux conditions d'exposition mobile (> 20 cm).

Sécurité d'exposition aux RF du produit final

L'intégration de ce module dans des produits finaux destinés à une utilisation portable, c'est-à-dire à une distance inférieure à 20 cm entre ses structures rayonnantes (antenne) et le corps des personnes à proximité, ou qui imposent des exigences techniques supplémentaires, comme la compatibilité avec les prothèses auditives, nécessite / peut nécessiter l'exécution des tests de DAS et potentiellement le dépôt d'une modification permissive de classe 2 à cette approbation modulaire, soit une approbation distincte pour le produit final sous son propre CI.

Tous les émetteurs réglementés par ISDE doivent se conformer aux exigences d'exposition aux radiofréquences (RF) conformément au **CNR-102 - Conformité des appareils de radiocommunication aux limites d'exposition humaine aux radiofréquences (toutes bandes de fréquences)**.

Ce document fournit des indications pour déterminer si les installations, opérations ou dispositifs de transmission, proposés ou existants, respectent les limites d'exposition humaine aux champs de radiofréquences (RF) adoptées par ISDE.

Une demande de renseignements auprès de l'ISDE ou d'un FCB est recommandé de toute urgence.

Antennes

Cet émetteur radio a été testé et approuvé par l'ISDE pour fonctionner avec les antennes énumérées ci-dessous :

- Taoglas Phoenix II - GSA.8835.A.101111

Pour se conformer aux limites EIRP maximales de l'ISDE et aux règles d'exposition aux RF, le gain d'antenne maximal pour les bandes de fonctionnement en mode mobile est :

Band	Frequency range	Gain
B25	1850 - 1915 MHz	9.0 dBi
B2	1850 - 1910 MHz	9.0 dBi
B66	1710 - 1780 MHz	6.0 dBi
B4	1710 - 1755 MHz	6.0 dBi
B5	824 - 849 MHz	7.12 dBi
B12	699 - 716 MHz	6.63 dBi
B13	777 - 787 MHz	6.95 dBi
B41	2496 - 2690	9.0 dBi
B38	2570 - 2620	9.0 dBi

L'utilisation d'une antenne ayant un gain supérieur à celui indiqué ci-dessus dans l'une des bandes spécifiées est strictement interdite.

Conformité aux Normes sur le matériel brouilleur

Cet appareil numérique de classe B est conforme à la norme NMB-003 de l'ISDE sur les équipements brouilleurs.

Conformité du produit final à la norme sur les équipements brouilleurs

Si le fabricant d'équipement d'origine du produit final est entièrement conforme à la conception de référence décrite ci-dessus, il peut hériter et s'appuyer sur l'approbation modulaire existante pour la conformité RF.

Le fabricant d'équipement d'origine du produit final reste toujours responsable de démontrer la conformité du produit final global aux normes applicables sur les équipements brouilleurs émises par l'ISDE.

Étiquetage du produit final

Le circuit intégré du module doit être visible de l'extérieur du produit final (par exemple, par fenêtre) ou par affichage électronique, ou doit être affiché sur une étiquette extérieure supplémentaire conformément à la chaîne suivante ou similaire :

Contient le circuit intégré : 8595A-UBX24AD02

D'autres exigences d'étiquetage peuvent s'appliquer en fonction de l'applicabilité d'autres spécifications de normes radio pertinentes pour le produit final.

Manuel d'utilisation du produit final

L'intégrateur OEM doit veiller à ne pas fournir d'informations à l'utilisateur final concernant la manière d'installer ou de retirer ce module RF dans le manuel d'utilisation du produit final qui intègre ce module.

Le manuel d'utilisation du produit final doit inclure toutes les informations/avertissements réglementaires applicables.