

BLUESOCKET COMPLIANCE NOTICE

1. INSTALLATION INSTRUCTIONS

This document includes user requirements for operating ADTRAN Bluesocket products in accordance with national laws, including usage of radio spectrum and operation of radio devices. Failure of the end-user to comply with the applicable requirements may result in unlawful operation and adverse action against the end-user by the applicable national regulatory authority.

- ADTRAN Bluesocket products are intended to be installed, maintained, and serviced by qualified service personnel with knowledge of radio frequency (RF) and related rules. Particular attention should be given to allowed operation frequencies. The general user should not attempt to install Bluesocket wireless products outdoors when external antennas, power, and grounding must be installed for use.
- Refer to the specific Bluesocket product's quick start guide (shipped with the unit or available online at <https://supportforums.adtran.com>) for information on installing, grounding, and powering the unit.
- Bluesocket products comply with radiation exposure limits set forth for an uncontrolled environment and meet RF exposure guidelines for wireless access points. Bluesocket products should be installed and operated keeping the product 65 cm or more away from a person's body.
- Use only the antennas which have been approved by ADTRAN for the specific Bluesocket product. Non-approved antennas may produce unwanted, spurious, or excessive RF transmitting power which may lead to the violation of local or national regulatory limits.
- During deployment of the system and its initial setup, professional installer must ensure that the allowed equivalent isotropically radiated power (EIRP) limit is not exceeded for the country in which the Bluesocket Access Point (BSAP) is deployed. The professional installer must enter the antenna gain in the BSAP GUI, using the following steps:
 1. Access the BSAP as outlined in the Quick Start Guide that shipped with the unit.
 2. On the **Configuration** tab, navigate to **Wireless > Access Points**.
 3. Select the appropriate access point link to display the configuration menu.
 4. Enter the antenna gain values (dBi) for the 2.4 GHz and 5 GHz frequency bands of ADTRAN approved antennas as outlined in the table below.

BSAP	Description	Part Number	Antenna Type	Frequency Band	Gain
1925	High Efficiency Omnidirectional Antenna Bundle 1925	1700932F1	Omnidirectional	2.4/5 GHz	3 dBi
1935	High Efficiency Omnidirectional Antenna Bundle 1935	1700931F1	Omnidirectional	2.4/5 GHz	3 dBi
1940	High Efficiency Omnidirectional Antenna Bundle 1940/2134	1700930F1	Omnidirectional	2.4 GHz	5 dBi
				5 GHz	7 dBi
2035	High Efficiency Omnidirectional Antenna Bundle 2035	1700957F1	Omnidirectional	2/4/5 GHz	3 dBi
	Dual Band HD Panel Antenna 2035	1700983F1	HD Panel	2.4 GHz	13 dBi
				5 GHz	7 dBi

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BSAP	Description	Part Number	Antenna Type	Frequency Band	Gain
2135	High Efficiency Omnidirectional Antenna Bundle 1940/2134	1700930F1	Omnidirectional	2.4 GHz	5 dBi
				5 GHz	7 dBi
	Dual Band Patch Antenna 2135	1700980F1	Patch	2.4 GHz	6 dBi
				5 GHz	7 dBi
	5 GHz Mesh Panel Antenna 2135	1700981F1	Mesh Panel	5 GHz	19 dBi
	Dual Band HD Panel Antenna 2135	1700982F1	HD Panel	2.4 GHz	13 dBi
5 GHz				7 dBi	

Additional attenuation between the device and antenna may have to be calculated. Using the following formula, the EIRP limit can be calculated based on the transmit power of the radio, the selected antenna's gain, and feeder's (coaxial cable) loss:

$$\text{EIRP Country Limit} = \text{RF Transmit Power (dBm)} + \text{Antenna Gain (dBi)} - \text{Feeder Loss (dB)}$$

Ce document comprend les besoins des utilisateurs pour l'exploitation des produits ADTRAN Bluesocket, conformément aux lois nationales, y compris l'utilisation du spectre radioélectrique et de l'exploitation d'appareils radio. Le défaut de l'utilisateur final de se conformer aux exigences applicables peut entraîner une utilisation illégale et des poursuites contre l'utilisateur final par l'autorité réglementaire nationale compétente.

- Les produits ADTRAN Bluesocket sont destinés à être installés, entretenus et réparés par du personnel d'entretien qualifié ayant une connaissance de la fréquence radio (RF) et des règles relatives à cette dernière. Une attention particulière devrait être accordée aux fréquences d'exploitation autorisées. L'utilisateur général ne devrait pas essayer d'installer des produits sans fil Bluesocket à l'extérieur quand des antennes externes, l'alimentation électrique et la mise à la terre doivent être installées à l'emploi.
- Reportez-vous au guide de démarrage rapide du produit Bluesocket particulier (livré avec l'appareil ou disponible en ligne à <https://supportforums.adtran.com>) pour obtenir des informations sur l'installation, la mise à la terre et la mise sous tension de l'appareil.
- Les produits Bluesocket sont conformes aux limites d'exposition aux rayonnements dans un environnement non contrôlé et sont conformes aux directives d'exposition RF pour les points d'accès sans fil. Les produits Bluesocket doivent être installés et exploités en gardant le produit à une distance de 65 cm ou plus du corps d'une personne.
- Utilisez uniquement les antennes qui ont été approuvées par ADTRAN pour le produit Bluesocket particulier. Des antennes non approuvées peuvent produire une transmission de puissance RF indésirable, parasite ou excessive qui peut conduire à une infraction aux limites réglementaires locales ou nationales.
- **Translation Needed**

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2. FEDERAL COMMUNICATION COMMISSION (FCC)

FCC Interference Statement

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

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

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.

FCC Cautions

Bluesocket products contain no user serviceable parts and are to be used with approved antennas only. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Bluesocket products and their antennas must not be co-located or operated in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

For outdoor use, antennas must be installed vertically to ensure that all emissions above 30 degrees elevation will not exceed the FCC 21 dBm EIRP limit.

In Europe, Australia, and New Zealand, the 5 GHz U-NII low band (5.15 to 5.35 GHz, channels 36, 40, 44, and 48) is designated for indoor use only. If the BSAP 2135 is installed indoors, for example in a harsh environment such as a warehouse, it must be configured for indoor use. For information on configuring a Bluesocket access point for indoor use, refer to the quick start guide that shipped with the product.

FCC Radiation Exposure Statement

Bluesocket products comply with FCC radiation exposure limits set forth for an uncontrolled environment and meet RF exposure guidelines for wireless access points. Bluesocket products should be installed and operated keeping the product 65 cm or more away from a person's body.

3. INDUSTRY CANADA (IC)

IC Interference Statement

This device complies with RSS-210/RSS-247 of the Industry Canada Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

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IC Caution

- (i) the device for operation in the band 5150 to 5350 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) the maximum antenna gain permitted for devices in the bands 5250 to 5350 MHz and 5470 to 5725 MHz shall be such that the equipment still complies with the EIRP limit;
- (iii) the maximum antenna gain permitted for devices in the band 5725 to 5850 MHz shall be such that the equipment still complies with the EIRP limits specified for point-to-point and non-point-to-point operation as appropriate;
- (iv) the worst-case tilt angle(s) necessary to remain compliant with the EIRP elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated; and
- (v) high-power radars are allocated as primary users (i.e., priority users) of the bands 5250 to 5350 MHz and 5650 to 5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Déclaration d'interférence d'Industrie Canada

Ce dispositif est conforme à la norme CNR-210/CNR-247 d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes :

- ce dispositif ne doit pas produire de brouillage préjudiciable;
- ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Avertissement d'Industrie Canada

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment :

- i) les dispositifs fonctionnant dans la bande 5150 à 5350 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5250 à 5350 MHz et de 5470 à 5725 MHz doit être conforme à la limite de la PIRE;
- iii) le gain maximal d'antenne permis pour les dispositifs utilisant la bande de 5725 à 5850 MHz doit être conforme à la limite de la PIRE spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas;
- iv) les pires angles d'inclinaison nécessaires pour demeurer conforme à l'exigence de la PIRE applicable au masque d'élévation, et énoncée à la section 6.2.2 (3), doivent être clairement indiqués;
- v) de plus, les radars de forte puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250 à 5350 MHz et 5650 à 5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

IC Radiation Exposure Statement

Bluesocket products comply with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 65 cm between the radiator and your body.

Déclaration d'exposition aux rayonnements d'Industrie Canada

Les produits Bluesocket sont conformes aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 65 cm entre la source de rayonnement et votre corps.

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4. EUROPEAN UNION (EU)

EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN 60950-1
- EN 50385
- EN 300 328
- EN 301 893
- EN 301 489-1
- EN 301 489-17