



Aerohive HiveAP Compliance Information

Federal Communication Commission Interference Statement

Aerohive products that show an FCC identifier on the product label (FCC ID: WBV-<model_name>) comply with part 15 of the FCC Rules when operating under the following restrictions: (1) they do not cause harmful interference, and (2) they must accept any RF interference received, including interference that might cause an unwanted impact on their 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 Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. 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.

In compliance with FCC Part 15 regulations, the HiveAP automatically discontinues transmission if there is no valid information to transmit or if there is an operational failure.

Important: FCC Regulatory Warnings Notice

This equipment is restricted to indoor use due to its operation in 5 GHz frequencies, which are shared by mobile satellite systems and government radar systems. The FCC requires that this product only be used indoors to reduce the potential for harmful interference with co-channel radar that might be operating in the 5.25-5.35 or 5.47-5.725 GHz frequency ranges in the same area. The conflicting activity of radar stations and this device can cause interference or damage to each other. In addition, this device has a radar detection function that might interrupt normal operations when it detects a radar signal.

To reduce the risk of interference even further, installing this device away from windows is recommended.

This equipment complies with the FCC DFS (Dynamic Frequency Selection) rules documented in FCC 06-96 and KDB 443999. The 5 GHz radio uses channels 36 to 48 (5.180 to 5.240 GHz) and channels 149 to 165 (5.725 to 5.825 GHz), as well as channels within the DFS operating frequency ranges: 52 to 64 (5.25 to 5.35 GHz), 100 to 116 (5.47 to 5.59 GHz), and 132 to 140 (5.66 to 5.725 GHz). The frequency range 5.6 - 5.65 GHz is excluded from use. The maximum transmit power for channels from 36 to 48 is 15 dBm in the FCC region. Because this maximum is enforced by HiveOS, the HiveAP automatically limits the power to 15 dBm even if the setting is greater than that.

The FCC region code is set in the device during the manufacturing process, the option to set it to any region other than FCC is disabled, and the country code selection function has been completely removed from all U.S. models. It is impossible for the end user to change the region to anything other than FCC.

Only attach antennas that are certified for use with this device. Replacing antennas with unauthorized, high-gain antennas greatly increases the risk of interference and invalidates the FCC certification.

The use of any devices not approved by the FCC is illegal.

Industry Canada

Note: The term "IC" before the radio certification number signifies that Industry Canada technical specifications were met.

Products that show an Industry Canada identifier on the product label (IC: 7774A-<model_name>) can be operated in Canada under the following restrictions:

- The device must not cause interference and must accept any interference, including that which might cause an unwanted impact on the operation of the device.
- To reduce potential radio interference to other users, the antenna type and its gain must be chosen so that the EIRP (equivalent isotropically radiated power) is not more than that permitted for successful communication.
- The use of the Unlicensed National Informational Infrastructure (UNII) band UNII-1 (5.15-5.25 GHz; channels 36-48) must be limited to indoor deployments to reduce the potential for harmful interference with co-channel mobile satellite systems.
- The maximum permitted antenna gain for operation in the UNII-2 band (5.25-5.35 GHz; channels 52-64) and UNII-2 Extended band (5.47-5.725 GHz; channels 100-116, 132-140) must comply with the EIRP limit.
- The maximum permitted antenna gain for operation in the UNII-3 band (5.725-5.825 GHz; channels 149-165) must comply with EIRP limits specified for point-to-point and non point-to-point operation as stated in the Industry Canada Radio Standards Specification RSS-210, section A9.2(3).
- High-power radar systems are allocated as primary users for the 5.25-5.35 GHz bands (channels 52-64) and 5.65-5.85 GHz bands (channels 132-165) with priority to use them. These systems can cause interference to and possibly damage HiveAP devices.

Class B

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par l'Industrie.

Important: Radiation Exposure Statement

This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters (8 inches) between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. For more information about RF exposure limits, visit (Canada) www.ic.gc.ca and (US) www.fcc.gov

Wi-Fi Certification



The Wi-Fi CERTIFIED™ Logo is a certification mark of the Wi-Fi Alliance®. The HiveAP 20, 100, 300 series have been certified for WPA™, WPA2™, WMM® (Wi-Fi Multimedia™), WMM Power Save, IEEE 802.11d, IEEE 802.11h, and the following types of EAP (Extensible Authentication Protocol):

- EAP-TLS
- EAP-TTLS/MSCHAPv2
- PEAPv0/EAP-MSCHAPv2
- PEAPv1/EAP-GTC
- EAP-SIM
- EAP-AKA
- EAP-FAST

The HiveAP 100 and 300 series have also been certified for short guard interval and 40-MHz operation in the 5-GHz band.

EC Conformance Declaration 0560 0700

Marking by the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment meets the following conformance standards:

- EN 60950-1 (IEC 60950-1) - Product Safety
- EN 301 893 - Technical requirements for 5 GHz radio equipment
- EN 300 328 - Technical requirements for 2.4 GHz radio equipment
- EN 301 489-1 / EN 301 489-17 - EMC requirements for radio equipment

Declarations of conformity, compliance statements, and other regulatory documentation are available at www.aerohive.com/support.

WEEE and RoHS Compliance



Aerohive Networks products have been reviewed, analyzed and found to be in compliance with the European Union (EU) directive for Waste Electrical and Electronic Equipment (WEEE) and with the EU directive for the Restriction of Hazardous Substances (RoHS).

WEEE Collection Programs in the U.S. and EU

At end of life, customers are requested to contact Aerohive to make arrangements for WEEE collection of their products. The Aerohive collection center in the U.S. is at the following address:

Aerohive Inc.
650 Kaiser Drive
Fremont, CA 94555
Telephone: 510-608-7790
Contact: Technical Support, weee@aerohive.com

Aerohive, in association with M-Cubed LLC, also has a collection center at the following address in Germany, a member state of the European Union:

EXTRABYTE - M Cubed LLC
Klopstock Strasse #8
33613 BIELEFELD
Telephone: 49-521-882245
Contact: Mr. Andreas Budde

Countries of Operation and Conditions of Use in the European Community

HiveAPs are intended to be operated in all countries of the European Community. Requirements for indoor vs. outdoor operation, license requirements and allowed channels of operation apply in some countries as described below.

- Before operating a HiveAP, the admin or installer must properly enter the current country code as described in Aerohive product documentation.
Note to U.S. model owners: To comply with U.S. FCC regulations, the country selection function has been completely removed from all U.S. models. The above function is for non-U.S. models only.
- HiveAPs automatically limit the allowable channels determined by the current country of operation. Incorrectly entering the country of operation might result in illegal operation and cause harmful interference to other systems. The admin is obligated to ensure HiveAPs are operating according to the channel limitations, indoor/outdoor restrictions and license requirements for each European Community country as described in this section.
- HiveAPs can be operated indoors or outdoors in all countries of the European Community using the 2.4 GHz band: Channels 1-13, except where noted below:
 - In Italy and Luxembourg, you must apply for a license from the national spectrum authority to operate a HiveAP outside your own premises and for public use or service.
 - In Belgium outdoor operation is only permitted using the 2.46 to 2.4835 GHz band: Channel 13.
 - In France outdoor operation is limited to the 2.454 to 2.4835 GHz band (channels 8 to 13) at a maximum of 10 mW EIRP (effective isotropic radiated power).

- In Norway, the 2.4 GHz band cannot be used outdoors within a 20-km radius of the center of Ny-Ålesund.
- In Russia, the 2.4 GHz band is for indoor use only.
- Because radar systems use some bands in the 5 GHz spectrum, WLAN devices operating in these bands must use DFS (Dynamic Frequency Selection) to detect radar activity and switch channels automatically to avoid interfering with radar operations. For the ETSI region, the HiveAP 300 series is certified for the latest ETSI EN 301 893 v1.5.1 DFS requirements and can use DFS channels 52 to 140 (5.26 GHz to 5.32 GHz, and 5.5 GHz to 5.7 GHz). To comply with ETSI regulations when deploying a HiveAP 300 series device outdoors, set the 5 GHz radio to operate on the DFS channels and enable DFS. When deploying a HiveAP 300 series device indoors, then the 5 GHz radio can also use channels 36 to 48 as well as the DFS channels. The maximum transmit power for channels from 36 to 48 is 17 dBm in the ETSI region. Because this maximum is enforced by HiveOS, the HiveAP automatically limits the power to 17 dBm even if the setting is greater than that.
- Because the frequency ranges 5.25 to 5.35 and 5.47 to 5.725 are affected by DFS (Dynamic Frequency Selection), HiveAP 20 and 28 models block channels 52 to 64 and 100 to 140.
- The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at installation to match the intended destination. The firmware setting is accessible by the end user. Some national restrictions are noted below:
 - In Italy and Luxembourg, you must apply for a license from the national spectrum authority to operate a HiveAP outside your own premises and for public use or service in the 5.15 to 5.35 GHz band (channels 36 to 64) and 5.47 to 5.725 GHz band (channels 100 to 140).
 - In Russia, you can only use the 5.15 to 5.35 GHz band at 100 mW (20 dBm) indoors, in closed industrial and warehouse areas, and on board aircraft for local network and crew communications during all stages of a flight and for public WLAN access only at an altitude of 3000 meters or higher. You can only use the 5.65 to 5.825 GHz band with 100 mW EIRP on board aircraft at an altitude of 3000 meters or higher.

Declaration of Conformity in Languages of the European Community

English	Hereby, Aerohive, declares that this Radio LAN device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Finnish	Valmistaja Aerohive vakuuttaa täten että Radio LAN device tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Dutch	Hierbij verklaart Aerohive dat het toestel Radio LAN device in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Bij deze Aerohive dat deze Radio LAN device voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.
French	Par la présente Aerohive déclare que cet appareil Radio LAN est conforme aux exigences essentielles et aux autres dispositions relatives à la directive 1999/5/CE.
Swedish	Härmed intygar Aerohive att denna Radio LAN device står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Danish	Undertegnede Aerohive erklærer herved, at følgende udstyr Radio LAN device overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

German	Hiermit erklärt Aerohive, dass sich dieser/diese/ dieses Radio LAN device in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMW i) Hiermit erklärt Aerohive die Übereinstimmung des Gerätes Radio LAN device mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien)
Greek	με την παρούσα Aerohive δηλώνει ότι radio LAN device συμμορφώνεται προς τις ουσιαστικές απαιτήσεις και τις λυμένες σχέσεις διατάξεις της οδηγίας 1999/5/ΕΚ
Italian	Con la presente Aerohive dichiara che questo Radio LAN device è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Spanish	Por medio de la presente Aerohive declara que el Radio LAN device cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Portuguese	Aerohive declara que este Radio LAN device está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

HiveAP 20 ag Safety Compliance

Power Cord Safety

Please read the following safety information carefully before installing a HiveAP.

Warning: Installation and removal of HiveAPs must be carried out by qualified personnel only.

- HiveAPs must be connected to an earthed (grounded) outlet to comply with international safety standards.
- Do not connect HiveAPs to an A.C. outlet (power supply) without an earth (ground) connection.
- The appliance coupler (the connector to the unit and not the wall plug) must have a configuration for mating with an EN 60320/IEC 320 appliance inlet.
- The socket outlet must be near the HiveAP and easily accessible. You can only remove power from a HiveAP by disconnecting the power cord from the outlet.
- HiveAPs operate under SELV (Safety Extra Low Voltage) conditions according to IEC 60950. The conditions are only maintained if the equipment to which they are connected also operates under SELV conditions.
- A HiveAP receiving power through its PoE (Power over Ethernet) interface must be in the same building as the equipment from which it receives power.

France and Peru only:

HiveAPs cannot be powered from IT* supplies. If your supplies are of IT type, then a HiveAP must be powered by 230 V (2P+T) via an isolation transformer ratio 1:1, with the secondary connection point labelled Neutral, connected directly to earth (ground). *Impédance à la terre

Important! Before making connections, make sure you have the correct cord set. Check it (read the label on the cable) against the description in this section.

Power Cord Set	
U.S.A. and Canada	The cord set must be UL-approved and CSA certified. Minimum specifications for the flexible cord: - No. 18 AWG not longer than 2 meters, or 16 AWG - Type SV or SJ - 3-conductor The cord set must have a rated current capacity of at least 10 A. The attachment plug must be an earth-grounding type with NEMA 5-15P (15 A, 125 V) or NEMA 6-15 (15 A, 250 V) configuration.
Denmark	The supply plug must comply with Section 107-2-D1, Standard DK2-1a or DK2-5a.
Switzerland	The supply plug must comply with SEV/ASE 1011.
U.K.	The supply plug must comply with BS1363 (3-pin 13 A) and be fitted with a 5 A fuse that complies with BS1362. The mains cord must be <HAR> or <BASEC> marked and be of type HO3VVF3GO.75 (minimum).
Europe	The supply plug must comply with CEE7/7 ("SCHUKO"). The mains cord must be <HAR> or <BASEC> marked and be of type HO3VVF3GO.75 (minimum). IEC-320 receptacle.

Veillez lire attentivement les informations de sécurité relatives à l'installation d'un point d'accès HiveAP.

Avertissement: L'installation et la dépose de points d'accès HiveAP doivent être effectuées uniquement par un personnel qualifié.

- Les points d'accès HiveAP doivent être connectés sur le secteur par une prise électrique munie de terre (masse) afin de respecter les standards internationaux de sécurité.
- Ne jamais connecter des points d'accès HiveAP à une alimentation électrique non-pourvue de terre (masse).
- Le boîtier d'alimentation (connecté directement au point d'accès) doit être compatible avec une entrée électrique de type EN 60320/IEC 320.
- La prise secteur doit se trouver à proximité du point d'accès HiveAP et facilement accessible. Vous ne pouvez mettre hors tension un point d'accès HiveAP qu'en débranchant son alimentation électrique au niveau de cette prise.
- Pour des raisons de sécurité, le point d'accès HiveAP fonctionne à une tension extrêmement basse, conformément à la norme IEC 60950. Les conditions de sécurité sont valables uniquement si l'équipement auquel le point d'accès HiveAP est raccordé fonctionne également selon cette norme.
- Un point d'accès HiveAP alimenté par son interface réseau Ethernet en mode POE (Power over Ethernet) doit être physiquement dans le même bâtiment que l'équipement réseau qui lui fournit l'électricité.

France et Pérou uniquement:

Un point d'accès HiveAP ne peut pas être alimenté par un dispositif à impédance à la terre. Si vos alimentations sont du type impédance à la terre, alors le point d'accès HiveAP doit être alimenté par une tension de 230 V (2P+T) via un transformateur d'isolement à rapport 1:1, avec le neutre connecté directement à la terre (masse).

Cordon électrique - Il doit être agréé dans le pays d'utilisation	
Etats-Unis et Canada	Le cordon doit avoir reçu l'homologation des UL et un certificat de la CSA.
	Les spécifications minimales pour un câble flexible - AWG No. 18, ou AWG No. 16 pour un câble de longueur inférieure à 2 mètres. - Type SV ou SJ - 3 conducteurs
	Le cordon doit être en mesure d'acheminer un courant nominal d'au moins 10 A.
	La prise femelle de branchement doit être du type à mise à la terre (mise à la masse) et respecter la configuration NEMA 5-15P (15 A, 125 V) ou NEMA 6-15P (15 A, 250 V).
Danemark	La prise mâle d'alimentation doit respecter la section 107-2 D1 de la norme DK2 1a ou DK2 5a.
Suisse	La prise mâle d'alimentation doit respecter la norme SEV/ASE 1011.
Europe	La prise secteur doit être conforme aux normes CEE 7/7 ("SCHUKO"). LE cordon secteur doit porter la mention <HAR> ou <BASEC> et doit être de type HO3VVF3GO.75 (minimum).

Bitte unbedingt vor dem Einbauen des HiveAP die folgenden Sicherheitsanweisungen durchlesen.

Warnung: Die Installation und der Ausbau des Geräts darf nur durch Fachpersonal erfolgen.

- Das Gerät sollte nicht an eine ungeerdete Wechselstromsteckdose angeschlossen werden.
- Das Gerät muß an eine geerdete Steckdose angeschlossen werden, welche die internationalen Sicherheitsnormen erfüllt.
- Der Gerätestecker (der Anschluß an das Gerät, nicht der Wandsteckdosenstecker) muß einen gemäß EN 60320/IEC 320 konfigurierten Geräteeingang haben.
- Die Netzsteckdose muß in der Nähe des Geräts und leicht zugänglich sein. Die Stromversorgung des Geräts kann nur durch Herausziehen des Geräternetzkaabels aus der Netzsteckdose unterbrochen werden.

- Der Betrieb dieses Geräts erfolgt unter den SELV-Bedingungen (Sicherheitskleinstspannung) gemäß IEC 60950. Diese Bedingungen sind nur gegeben, wenn auch die an das Gerät angeschlossenen Geräte unter SELV-Bedingungen betrieben werden.

Stromkabel. Dies muss von dem Land, in dem es benutzt wird geprüft werden:

U.S.A. und Kanada	Der Cord muß das UL geprüft und war das CSA beglaubigt.
Kanada	Das Minimum spezifikation für der Cord sind: - Nu. 18 AWG - nicht mehr als 2 meter, oder 16 AWG. - Der typ SV oder SJ - 3-Leiter Der Cord muß haben eine strombelastbarkeit aus wenigstens 10 A. Dieser Stromstecker muß hat einer erdschluss mit der typ NEMA 5-15P (15A, 125V) oder NEMA 6-15P (15A, 250V) konfiguration.
Danemark	Dieser Stromstecker muß die ebene 107-2-D1, der standard DK2-1a oder DK2-5a Bestimmungen einhalten.
Schweiz	Dieser Stromstecker muß die SEV/ASE 1011 Bestimmungen einhalten.
Europe	Europe Das Netzkabel muß vom Typ HO3VVF3GO.75 (Mindestanforderung) sein und die Aufschrift <HAR> oder <BASEC> tragen. Der Netzstecker muß die Norm CEE 7/7 erfüllen ("SCHUKO").

Liability Disclaimer

Installation of Aerohive equipment must comply with local and national electrical codes and with other regulations governing this type of installation. Aerohive Networks, its channel partners, resellers, and distributors assume no liability for personal injury, property damage, or violation of government regulations that might arise from failing to comply with the instructions provided and appropriate electrical codes.