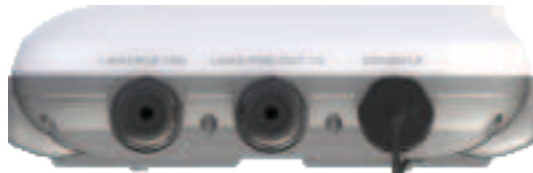


Interfaces



1

2

3



4

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6

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8



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11

12

1 LAN 1 10GE / PoE 802.3bt (RJ45)

2 LAN 2 1GE / 802.3af PSE OUT (RJ45)

3 CONSOLE (RJ45) Reset button above port

4 A4 2.4/5GHz

5 A3 2.4/5GHz

6 A2 2.4/5GHz

7 A1 2.4/5GHz

8 BLE 5.0 / Zigbee 3.0

9 A8 2.4/5/6GHz

10 A7 2.4/5/6GHz

11 A6 2.4/5/6GHz

12 A5 2.4/5/6GHz

LED Indicators



1

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3

1 WiFi

Off: Radio 1 & 2 off

Blue: Radio 1 on

Blinking Blue: Radio 1 transmitting

Amber: Radio 2 on

Blinking Amber: Radio 2 transmitting

Green: Radio 1 & 2 on

Blinking Green: Radio 1 & 2 transmitting

3 Power

Off: Device off

Green: Device on

Blinking Green: Booting up or upgrading

Amber: Reserved for customizations

2 LAN

Off: Not connected

Green: Connected

Blinking Green: Transmitting at 10/1Gbps

Blinking Amber: Transmitting at 100Mbps

Cautions and Warnings

Environmental specifications

Ambient operating temperature: -40°C to 60°C

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)
Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Warning: Equipment intended for installation in Restricted Access Location.
Avertissement: équipement destiné à être installé dans un endroit à accès restreint.

Caution: This equipment is to be used in a Network Environment 0 per IEC/ET 62101. This product is connected only to PoE networks without routing to the outside plant.
Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IEC/ET 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 54Vdc, 1.11A from PoE source.
Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 54Vdc, 1.11A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 54Vdc (PoE).

Grounding – To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning/surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.
Mise à la terre – Pour éviter d'endommager votre équipement, les connexions qui entrent de l'extérieur du bâtiment doivent passer par un parafoudre / surtension et être correctement mises à la terre. Utilisez une station de travail à décharge électrostatique (ESD) et / ou portez un bracelet antistatique pendant que vous travaillez. En plus de la borne de mise à la terre de la fiche, sur le panneau arrière, il y a une autre borne séparée pour la mise à la terre.

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of 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 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 residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, 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 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.

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 61cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Innovation, Science and Economic Development (ISED) – Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible.
Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 32cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 32cm de distance entre la source de rayonnement et votre corps.

The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.
Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

Caution: The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems
Attention: Les dispositifs fonctionnant dans la bande 5150-5250 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

Caution: The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.
Attention: Le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.i.r.e.; le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

(iii) where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated..
(iii) lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3, doivent être clairement indiqués.

This radio transmitter (IC: 7280B-5108TQ56462 / Model: FAP-432G) has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
Le présent émetteur radio (IC: 7280B-5108TQ56462 / Model: FAP-432G) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and it's antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.
Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionner en association avec une autre antenne ou transmetteur.

Antenna Label	Brand Name	Model Name	Antenna Type	Connector	Frequency	Max Peak Gain (dBi)
A1	SENAO	5718A0729300	Dipole	N-Type	2.4G/5G	2.4G: 4.82 / 5G: 5.89
A2	SENAO	5718A0729300	Dipole	N-Type	2.4G/5G	2.4G: 4.76 / 5G: 6.01
A3	SENAO	5718A0729300	Dipole	N-Type	2.4G/5G	2.4G: 5.03 / 5G: 6.40
A4	SENAO	5718A0729300	Dipole	N-Type	2.4G/5G	2.4G: 4.78 / 5G: 6.14
A5	SENAO	5718A0727300	Dipole	N-Type	2.4G/5G/6E	2.4G: 4.26 / 5G: 5.75 / 6E: 5.80
A6	SENAO	5718A0727300	Dipole	N-Type	2.4G/5G/6E	2.4G: 4.45 / 5G: 5.54 / 6E: 5.95
A7	SENAO	5718A0727300	Dipole	N-Type	2.4G/5G/6E	2.4G: 4.81 / 5G: 5.50 / 6E: 5.65
A8	SENAO	5718A0727300	Dipole	N-Type	2.4G/5G/6E	2.4G: 4.86 / 5G: 5.72 / 6E: 5.80
BLE	SENAO	5718A0618300	Dipole	N-Type	BT/Zigbee	BLE: 4.71

Professional Installation Instructions

1. Installation personal
This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.
2. Installation location
The product shall be installed at a location where the radiating antenna can be kept 61cm/32cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.
3. Antenna
Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC/IC limit and is prohibited.
4. Installation procedure
Please refer to user's manual for the detail.
5. Warning
Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

1. Installation
Ce produit est destiné à un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et les règles s'y rapportant. L'installation et les réglages ne doivent pas être modifiés par l'utilisateur final.
2. Emplacement d'installation
En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 61cm/32cm entre l'antenne émettrice et les personnes.
3. Antenne
Utiliser uniquement les antennes approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/IC, ce qui est interdit.
4. Procédure d'installation
Consulter le manuel d'utilisation.
5. Avertissement
Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de sérieuses pénalités fédérales.

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



This declaration is only valid for Fortinet products (including combinations of software, firmware and hardware) provided by Fortinet or Fortinet's authorized partners to the end-customer directly for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. Any Fortinet products not obtained directly from Fortinet or Fortinet's authorized partners may not comply with EU Directives and Fortinet makes no assurances for such products.

Този продукт е в съответствие с Директива 2014/53/ЕС.

Tento produkt je v souladu se směrnicí 2014/53/EU.

Dette produkt er i overensstemmelse med direktiv 2014/53/EU.

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

See toode vastab direktiivile 2014/53/EL.

This product is in compliance with Directive 2014/53/EU.

Este producto cumple con la Directiva 2014/53/UE.

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Ce produit est conforme à la Directive 2014/53/UE.

Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Questo prodotto è conforme alla Direttiva 2014/53/EU.

Šis produkts atbilst Direktīvai 2014/53/EU.

Šis gaminys atitinka direktyvą 2014/53/ES.

Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Ez a termék megfelel a 2014/53/EU irányelvnek.

Dit product is in overeenstemming met Richtlijn 2014/53/EU.

Dette produktet er i samsvar med direktiv 2014/53/EU.

Ten produkt jest zgodny z dyrektywą 2014/53/UE.

Este produto está em conformidade com a Diretiva 2014/53/UE.

Acest produs este în conformitate cu Directiva 2014/53/UE.

Tento produkt je v súlade so smernicou 2014/53/EÚ.

Ta izdelek je v skladu z Direktivo 2014/53/EU.

Tämä tuote on direktiivin 2014/53/EU mukainen.

Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available at the link below:
<https://site.fortinet.com/ProductRegulatory/EU>

	ΔI	R _{in}	ω _{in}	H _{in}	I _{in}	γ _{in}	K _c		U _B
	[m]	[Ω]	[rad]	[H]	[A]	[V]	[N]		
	1	1 M	1	1.3	50	51	-1		
	PT	RC	OK	SI	CC	CC	RE SLE		

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

2402-2480MHz less than 20dBm
2405-2480MHz less than 20dBm
2412-2472MHz less than 20dBm
5260-5240MHz less than 23dBm
5260-5320MHz less than 23dBm *
5500-5700MHz less than 30dBm *
5745-5825MHz less than 14dBm
5725-5875MHz less than 30dBm
5725-5875MHz less than 13.5dBm
5955-6415MHz less than 23dBm

2402-2480MHz less than 20dBm
2405-2480MHz less than 20dBm
2412-2472MHz less than 20dBm
5180-5240MHz less than 23dBm
5260-5320MHz less than 23dBm *
5500-5700MHz less than 30dBm *
5745-5825MHz less than 14dBm
5725-5875MHz less than 30dBm
5725-5875MHz less than 13.5dBm
5955-6415MHz less than 23dBm

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This product is in compliance with Statutory Instrument 1206 Radio Equipment Regulations 2017
Operations in the 5.15-5.35GHz band are restricted to indoor usage only.

The full Declaration of Conformity for this product is available in the link below:
<https://site.fortinet.com/ProductRegulatory/UK>

