

**PRINT INSTRUCTIONS:**

REFERENCE SHEET FOR VAT-02-000, DOCUMENT P/N 77-600056-001 REV 1.2 |  
INK: BLACK | MATERIAL: 20 LB MEAD BOND | SIZE: 8.50" X 11.00" SCALE 1:1 |  
FOLDS: BI-FOLD VERTICAL, BI-FOLD HORIZONTAL (TO FIT IN BOX)

## Vivint Air Tower

(VAT-02-000)

### Quick Reference (Overview, Installation, Specs, Regulatory)

The Vivint Air Tower™ is a proprietary networking connectivity device that can be added to the homeowner's Vivint Smart Home system. This proprietary Tri-band Wi-Fi solution, that can be installed as either a dedicated AP device or a mesh node, creates a secure network dedicated to a Vivint system comprised of the Smart Hub®, Pro Display® and connected devices such as cameras, sensors, etc. (Vivint Air Tower is not supported on the older SkyControl panel.) Adding the Air Tower to configure a dedicated Vivint network eliminates bandwidth sharing on the local network, worry about rogue devices, and the need for third-party hardware such as repeaters, extenders, etc.

Air Tower optimizes network traffic; increases signal strength between cameras and the hub thereby enhancing video quality; and improves the speed, reliability, and control of the overall Vivint smart home experience.

The Air Tower is professionally installed by a Vivint Field Service Pro (FSP) technician. Air Tower devices can be added to the system via either NFC or Wi-Fi Connect. Features include an LED light that indicates onboarding function and real-time status; and a multi-purpose button that lets you toggle the LED on/off, and reboot or reset the device. Once installed and configured, the Air Tower operates seamlessly and transparently in improving every aspect of the Vivint network/system. In other words, when functioning properly the Air Tower requires very little if any end user interaction.

This document includes a product description overview, key features, illustrations, and installation instructions, as well as technical specifications, standards certifications and listings, and regulatory compliance references.



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#### Installation Instructions Outline

Installing the Air Tower is simple and straightforward, and can be quickly learned and mastered. As noted, you can install multiple Air Tower devices (i.e., nodes) to a Vivint system based on the Smart Hub (SkyControl is not supported) if warranted by the home environment and size and scope of the system.

**IMPORTANT:** In order to configure the dedicated Vivint network, either the initial Air Tower node or the Smart Hub itself must be hardwired to the home's broadband internet router via an Ethernet connection, designating that hardwired component as the network's single portal node. To be clear, only one portal node is allowed, and the Ethernet port on the Air Tower can be used for connection only when it is acting as that portal node.

The Vivint technician should carefully read these steps in order to ensure a successful installation and optimal performance. For additional information, including details for specific network configurations and troubleshooting guidelines, refer to the *Field Service Smart Home Pros* website.

#### Follow these steps to pair an Air Tower to the hub and add it to the system:

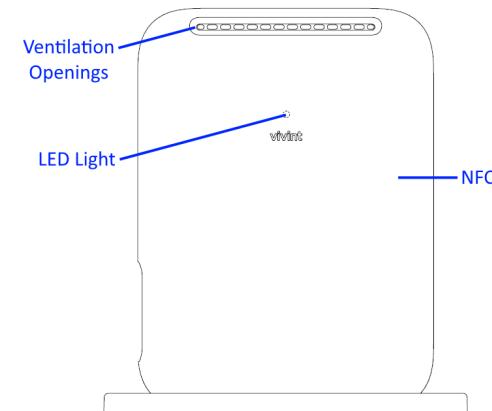
1. First, change the connection type to **Air Tower mode**. At the display, tap on the menu icon (...) > tap **Software version** > enter the PIN code **2203** to access the Installer Toolbox > tap **Networking > Vivint Network** > and then select **Air Tower**. Press **Back** > and then press **OK** to confirm the change.  
**IMPORTANT:** Do NOT reboot the hub during the Air Tower installation process. Once the Air Tower is installed, the network connection status will update to show the new connection type.
2. Pair the **Air Tower to the hub via NFC**. Connect the NFC USB dongle to the hub. In the Installer Toolbox > tap **Networking > Vivint Network > Add Air Tower > NFC** > and then tap **Add**. Align the front right side of the Air Tower (see the NFC sticker) with the NFC USB dongle, and hold them together until pairing is complete (this may take several minutes, make sure to wait until prompted that pairing is successful).  
**NOTE:** If NFC doesn't work you can use the Wi-Fi Connect method to pair the Air Tower.
3. Name each Air Tower that you add. In the Installer Toolbox > tap **Networking > Vivint Network > Advanced Networking > Air Tower Node View**. Tap the node and then its name field to enter a unique descriptive name (based on its location and function as either a *portal* or *point* node).
4. Install the **Air Tower**. Using the power supply, plug the device into an unswitched wall outlet.  
**NOTE:** If the hub is wirelessly connected to the home router, you must install the first Air Tower (as the network's single *portal* node) where it can be directly connected to the router via its RJ45 Ethernet port. However, if the hub is hardwired to the router, you should install the first Air Tower and subsequent nodes (as network *point* nodes) in a location that best enhances network performance, such as in between a camera with a weak signal and the hub. You can use the AirBridge Network Graph tool (on the Networking page) to both view the network and to determine how many nodes are needed and where they should be installed for optimal coverage. See the *Field Service Pros* website for details and examples.
5. Verify power is present at the Air Tower. The LED will illuminate white. (See LED color descriptions.)
6. Wait for the Air Tower to establish a connection to the hub and update its firmware. The LED will illuminate green. This may take several minutes.
7. If after running the Network Graph tool you need to install multiple devices, follow the same steps as above.
8. Once finished, the hub will automatically configure all of the Air Tower nodes on the Vivint network.

#### Multi-Purpose Button Functionality

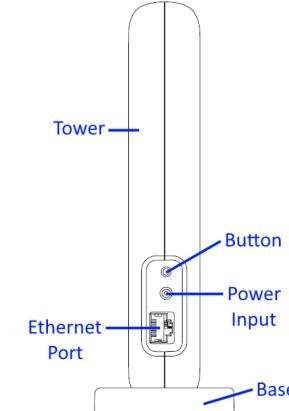
The button located on the side of the Air Tower device can perform multiple functions, as described below.

- **Press & let go quickly** — Toggles on/off the LED light
- **Press & hold for 10 seconds** — Reboots the device
- **Press & hold for 20 seconds** — Factory resets the device

**Air Tower (front view) —**



**Air Tower (side view) —**



<b>Technical / Hardware Specifications</b>		<b>Standards Certifications &amp; Listings</b>	
Vivint Part Number (P/N)	VAT-02-000	FCC	47CFR Part 15, Subpart B, Subpart C, and Subpart E
Model Number (M/N)	BB02	ISED Canada	CAN ICES-003, RSS-GEN; RSS-247
Color	Dark Gray	Safety Certification	cULus Listed
Weight	18.3 oz. (approximate)	UL 62368-1	Standard for Safety for Audio/Video, Information and Communication Technology Equipment
Dimensions	164mm x 185mm x 63mm (6.5 x 7.3 x 2.5 inches)	CSA C22.2 No. 62368-1	Standard for Safety for Audio/Video, Information and Communication Technology Equipment
Power Usage	12V 2A	FCC ID:	2AAAS-BB02
Backup Battery	None	IC:	10941A-BB02
Transmit Power MCS0	2.4GHz: +20dBm; 5GHz: +24dBm		
Receive Sensitivity	2.4GHz: -93dBm; 5GHz: -92dBm		
Connectivity (Frequency Bands, Network Standards, Ports)	Tri-band 2.4GHz (access point only), 5GHz low and high (access point, station, or mesh); 802.11 a/b/g/n/ac/ax; 2x2 MU-MIMO; NFC; 10/100/1000 WAN		
Communication Security	WPA2		
Operating Temp. Limits	0° to 49°C ‡		
Relative Humidity	15-85% Non-Condensing		

### Troubleshooting Tips

Possible failures with the Vivint Air Tower and what to do in order to resolve:

- **Air Tower is not pairing to the hub (NFC progress stops) –**
  - ✓ Factory reset the device, and then try again
- **Air Tower is not connecting to the hub –**
  - ✓ Ensure the device is close enough to the hub (20 ft. recommended) and does not have too many obstructions (walls, floors, etc.). Move the device if possible.
- **Camera is not connecting to the Air Tower –**
  - ✓ Run the rebalance tool (Installer Toolbox > Vivint Network > Advanced Networking > Air Tower View > Rebalance)
  - ✓ Reboot the hub, then reset both the camera and the Air Tower

\*For complete regulatory compliance information, go to: [vivint.com/legal/fcc](http://vivint.com/legal/fcc).



\*NOTE: Installation in a non-climate-controlled space with excessive ambient heat, such as a garage or attic, will reduce useful/service life and should be avoided if possible

### What the LED Light Colors Mean

The Vivint Air Tower features an LED light located on the front directly above the logo that illuminates different colors in order to indicate various functions and status, as described below.

- **White (Solid)** — Powered on
- **White (Blinking)** — Searching / pairing (press & hold for 3-5 seconds)
- **Green (Solid)** — Connected to the hub (successful)
- **Green (Blinking)** — Firmware update in progress
- **Red (Solid)** — Error connecting to the hub (failed)
- **Red (Blinking)** — Not connected to the hub / offline
- **Yellow (Solid) > White (Blinking)** — Soft reboot (press & hold for 10 seconds)
- **Yellow (Solid) > Red (Blinking)** — Factory reset (press & hold for 20 seconds)

### Wireless Product Notice

Wireless communications hardware provides reliable communication; however, there are some limitations which must be observed.

- The transmitters are required to comply with all applicable wireless rules and regulations. As such, they have limited transmitter power and limited range.
- Wireless signals may be blocked by radio signals that occur on or near the wireless operating frequencies.
- For indoor use only.

### FCC and ISED Canada Regulatory Compliance Declarations\*

**CAUTION!** Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules and Industry Canada license-exempt RSS standard(s). 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 of the device.

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 the 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/television technician for help.

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

(i) 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.

**PRUDENCE!** Changements ou modifications pourraient annuler le droit de l'utilisateur à utiliser l'équipement non autorisés.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

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,
- (2) L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Ces limites sont conçues pour fournir une protection raisonnable contre les interférences

nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre une énergie de radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, il peut causer des interférences nuisibles aux communications radio. Cependant, il n'existe aucune garantie que des interférences ne se produisent pas dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en mettant l'équipement hors et sous tension, l'utilisateur est encouragé à essayer de corriger l'interférence par une ou plusieurs des mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmentez la distance entre l'équipement et le récepteur.
- Connecter l'équipement à une sortie sur un circuit différent de celui sur lequel le récepteur est branché.
- Consulter le revendeur ou un technicien radio / télévision expérimenté pour de l'aide.

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 5150-5250 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

**FCC (U.S.) and IC (Canada) Radiation Exposure Statement:** This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 27 cm (10.6 in) between the radiator and your body.

**Déclaration d'exposition aux radiations:** Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 27 cm entre le radiateur et votre corps.