NETVANTA 160/161 WIRELESS ACCESS POINT
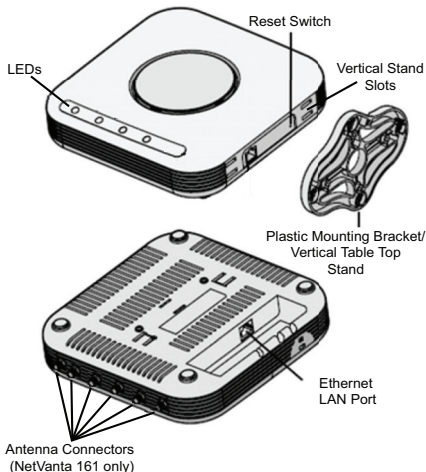
P/N 1700416F1, 1700417F1

HARDWARE

Make sure the following items were included in the shipment:

- NetVanta 160 or NetVanta 161 Wireless Access Point (AP)
- One plastic mounting bracket/vertical table top stand, four drywall anchors, four screws
- Eight adhesive rubber feet
- One metal ceiling bracket, one metal slider, two screws

ANTENNAS

The NetVanta 160 has a high-performance internal antenna (no external antenna is required). The NetVanta 161 has six external reverse subminiature version A (SMA) connectors for wireless communications.There are three connectors for each band which are marked **2.4G 1** through **3** or **5G 1** through **3** on the chassis. The antennas can be ordered from ADTRAN in a set of six (three 2.4 GHz and three 5 GHz, P/N 1700939F1).
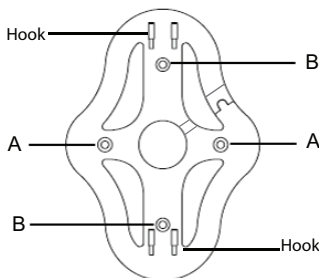
Reset Switch
LEDs
Vertical Stand Slots
Plastic Mounting Bracket/ Vertical Table Top Stand
Ethernet LAN Port
Antenna Connectors (NetVanta 161 only)

> **NOTE**
>
> *Make a note of the 12-character media access control (MAC) address and serial number listed on the back of the NetVanta 160/161 before mounting the AP to a wall or other surface. This information will be required during configuration.*

MOUNTING THE AP TO DRYWALL OR ELECTRICAL BOX

NetVanta APs should be positioned for maximum throughput and range between other APs and wireless client devices. Follow these instructions to mount the NetVanta 160/161 AP on drywall or an electrical box. To mount the AP to drywall or an electrical box:

1. For the NetVanta 161 only: Install the antennas (sold separately) onto an appropriate antenna ports on the AP. The antenna ports are labeled **2.4G 1** through **3** or **5G 1** through **3**.
2. Using the thumb screws only, carefully thread the antenna onto the appropriate connector until it is secure.Repeat Steps 1 and 2 with the each antenna.
3. Mounting to drywall: Install the four supplied drywall anchors into the wall or ceiling in the **A** and **B** positions, using the holes in the plastic mounting bracket as a template.
4. Insert the four supplied screws through the plastic mounting bracket (in the **A** and **B** positions) into the drywall anchors and tighten.
5. Mounting to a U.S. electrical box: Insert two of the four supplied screws through the plastic mounting bracket (in the **B** positions) into the electrical box and tighten.
6. Engaging the slots on the back of the AP with the hooks, slide the AP onto the plastic mounting bracket until it clicks.
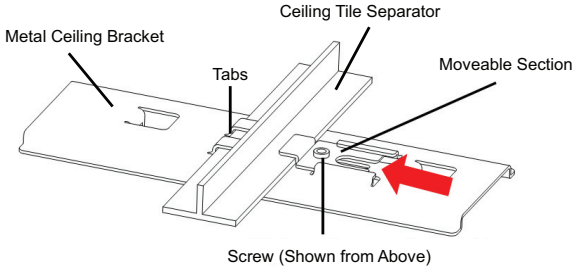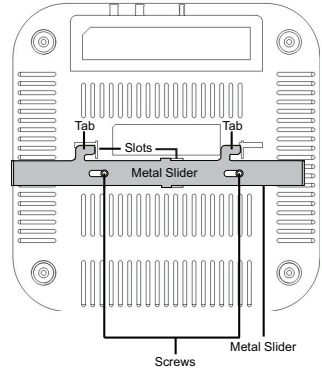
Hook
B
A
A
B
Hook

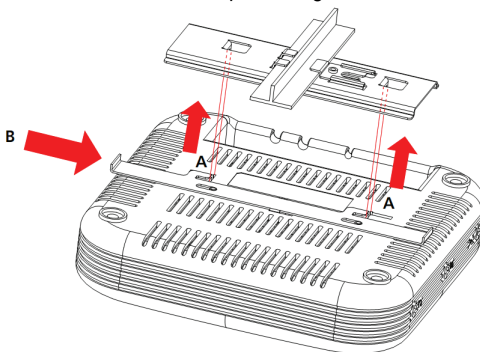## Mounting the AP to a Dropped Ceiling

The NetVanta 160/161 AP is shipped with a metal ceiling mounting kit to mount the AP on the ceiling tile separators of standard dropped ceilings. The plastic mounting bracket can be used to mount the AP to a drywall ceiling or ceiling electrical box. Refer to *Mounting the AP to Drywall or Electrical Box* for instructions. NetVanta APs should be positioned for maximum throughput and range between other APs and wireless client devices.

To mount the NetVanta 160/161 AP to a dropped ceiling:

1. For the NetVanta 161 only: Install the antennas (sold separately) onto an appropriate antenna ports on the AP. The antenna ports are labeled **2.4G 1** through **3** or **5G 1** through **3**.

2. Using the thumb screws only, carefully thread the antenna onto the appropriate connector until it is secure. Repeat Steps 1 and 2 with the each antenna.

3. Lay the metal slider on the back of the AP in the orientation shown in the illustration above. Attach the slider to the back of the AP using the two small screws provided. After the screws are tightened, the slider should slide back and forth clicking into each position.

4. In a suitable location away from obstructions, slide the tabs on the metal ceiling bracket over one edge of a ceiling tile separator.

5. Slide the moveable section into place and tighten the screw to secure it.

6. Position the AP so that the two tabs on the ceiling bracket locate in the slots in the AP (**A**). Push the slider mounted on the AP across until it snaps, locking the AP to the bracket (**B**).

SUPPLYING POWER TO THE AP

The NetVanta 160/161 AP does not have a power switch. It is powered when connected to ADTRAN's Single Port Power over Ethernet (PoE) Injector (P/N 1700920F1) or an access controller (AC) that supplies PoE based on the IEEE 802.3af standard. The NetVanta 160/161 can be powered by an optional external DC power adapter (P/N 1700922F1) connected to an AC power source. The DC power adapter automatically adjusts to any voltage between 100 and 240 VAC at 50 or 60 Hz. No voltage range settings are required. The external DC power adapter is not automatically shipped with the NetVanta 160/161 AP but can be requested from ADTRAN or your reseller.

> **NOTE** *If the AP is used in a medical environment, it must use an IEC/EN 60601-1 compliant power adapter.*

CONNECTING TO THE AP

Connect the NetVanta 160/161 AP to the Ethernet port of the AC or to an Ethernet port on a unit that can be accessed by the AC. Connect the RJ-45 Ethernet connector on the AP's back panel (labeled **LAN**) to your network using a CAT 5 Ethernet cable. When the AP and the AC are powered on, the AP's network LED will light indicating a valid network connection.

The NetVanta 160/161 AP is managed by the AC over ADTRAN Wireless Control Protocol (AWCP) using the Ethernet LAN port of the AP rather than the console port. Because the console port is only necessary for purposes of debugging beyond the typical case, a typical user will have no need of console access to the AP.

> **NOTE** *Only ADTRAN ACs running AOS R10.4.0 or later will support NetVanta 160/161 APs. For a list of ACs that support NetVanta 160/161 APs, refer to the AOS Feature Matrix at https://supportforums.adtran.com.*

NETVANTA 160/161 AP LEDS

LED indicators are located on the top of the NetVanta 160/161 AP unit. The following tables list the LEDs and their behaviors.

Status LED	2.4G LED	5G LED	Description
Amber Solid	Off	Off	The unit is powering up.
Green Solid	Off	Off	The unit is initializing software and acquiring an IP address.
Green Solid	Green Solid/ Flashing	Green Solid/ Flashing	The radios are activated and passing traffic.

Network LED	Description
Off	No link is detected.
Amber Solid	A 10/100Base-T link detected with no activity.
Amber Flashing	A 10/100Base-T link detected with activity.
Green Solid	A 1000Base-T link detected with no activity.
Green Flashing	A 1000Base-T link detected with activity.

ACCESSING THE CONFIGURATION WIZARD

The Web-based graphical user interface (GUI) for your NetVanta AC contains a configuration wizard that leads the user through the basic configuration of the dynamically discovered access points. Refer to the quick start guide shipped with your NetVanta AC for instructions on accessing the GUI and configuring the unit's IP address.

From the initial GUI screen, expand the **Data** tab on the left side of the menu. Select **AC/AP Discovery** under the **Wireless** menu. Select the **Wizard** button next to the desired discovered access point.

CONFIGURING THE APPLICATION

More detailed documentation for configuring the NetVanta AP is provided in the *NetVanta 160 Series Wireless Hardware Installation Guide* and the *NetVanta 160 Wireless Configuration Guide*. For more detail on configuring the NetVanta controlling system, refer to the *AOS Command Reference Guide*, configuration guides, and technical support notes. Documentation is available online at https://supportforums.adtran.com.

RESET SWITCH

Your NetVanta 160/161 AP can be reset by inserting a small pointed object into the hole in the side of the unit labeled **RESET**. Press the **RESET** switch once to reboot the unit.