# AB-CAU-500-GGGA Installation Instructions

**IMPORTANT:** Professional installation of this unit is required in order to comply with regulatory requirements.  Detailed software setup information is available only to properly trained and qualified installation personnel.  Contact FRC Internet Products, LLC for more information.

## Installation Instructions

The AB-CAU-500-GGGA Wireless Access Point w/Backhaul unit is designed to mount to a 1 ½" – 1 ¾" diameter pole using the attached mounting clamp.  Slide the clamp down the mounting pole (RF connector side facing up) until the desired position is achieved, then tighten the two U-bolt nuts until the unit is securely attached to the pole

Assemble and attach the enclosed weatherproof Ethernet connector per the included instructions (Tyco Electronics Instruction sheet 408-8933).  NOTE: Ethernet wiring to be standard wiring per TIA/EIA-568-B

Connect the other end of the Ethernet wiring to the Ethernet POE injector.  The POE injector should be powered by the included POE power supply.

Connect RF cables and antennas.  Antennas should be mounted per manufacturers instructions included with the selected antenna.  Unused RF connectors should be properly covered using a type "N" dust cap or other suitable method.  (Please note other installation notes listed below when installing antennas).

**Other important installation notes:**

- When using RF cables, ensure the antenna base plate or frame is on the same grounding plane as the CAU. Failure to do so may result in electrical damage to the radios
- Before connecting RF cables touch the center conductor and shield to the grounding plane. Always connect the antenna first, ground or discharge the center conductor, then connect the CAU.
- Any RF connector threaded on upside down forming a 'cup' needs to be taped. Follow the recommended torque instructions for the RF connectors and NEVER force a connector.
- Do not put the CAU where the surrounding air is stagnant. Heat pockets will form more readily between the heat sync nodules creating an insulating affect.
- When finished installing, double check all bolts for tightness.
- If so desired, use the attached grounding lug to improve ground connections for the internal Ethernet surge protector.

**RF Exposure Information**

The antennas used for this transmitter are 3 dBi max gain for radios #1-3 (802.11b/g) and 31.4.dBi max. gain for radio #4 (802.11a).  Antennas for radios #1 -3 must be installed to provide a separation distance of at least 20 cm from all persons while the antenna for radio #4 must provide a distance of 330.75 cm from all persons.  The radios must not be co-located or operating in conjunction with any other antenna or transmitter.

Please ensure the appropriate RF exposure warnings are provided to the end user once installation has been completed

**FCC Terms Of Use**

This unit contains FCC ID W93-ABCAU500AAAA and W93-ABCAU500G

This device complies with Part 15 of the FCC Rules and Regulations. 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.

NOTE:    This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**Contact Information**

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