This document is intended for trained and experienced technical personnel familiar with the existing Wifi Networking Group (WNG) product line and features.

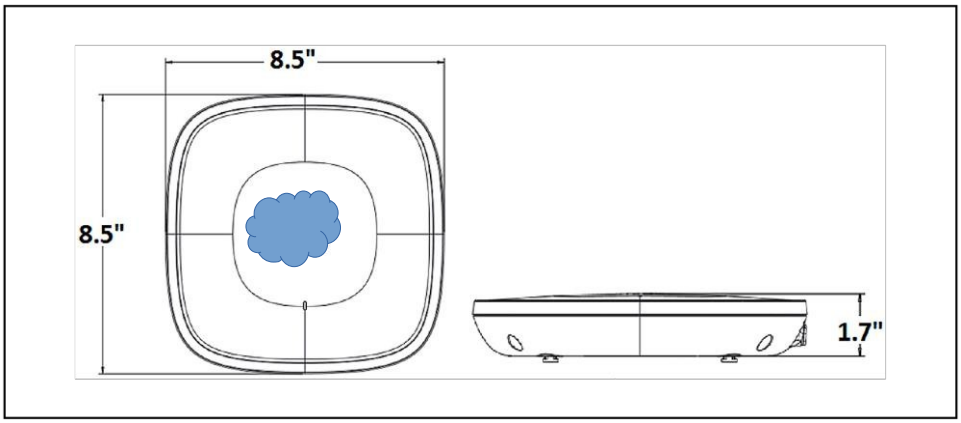

Figure 1.
Citelyst 7733 Series Access Points

Citelyst 7733 overview

Designed for next-generation mobility

The DEVICE Citelyst7733 access points with high-performance Wi-Fi 6 capabilities and innovations in RF performance, security, and analytics enable end-to-end digitization and help accelerate the rollout of business services by delivering beyond Wi-Fi.

- **Resilient:** Increased efficiency and cellular-like determinism with up to 4x capacity relative to 802.11ac access points, even in demanding environments
- **Secure:** Along with built-in security, and Software Defined Access SDA support, these access points can deliver standards-compliant, enhanced security on open Wi-Fi
- **Intelligent:** With multi-RF support paramount for Internet of Things (IoT) devices and expanded ecosystem partnerships, the Citelyst 9100 portfolio provides unprecedented visibility from mobile devices on the DEVICE network along with enhanced DEVICE RNA assurance

The Citelyst 9100 Series access points come with built-in security in the form of secure boot, runtime defenses, image signing, integrity verification, and hardware authenticity. The Citelyst 9100 portfolio, with Wi-Fi 6, provides reliable wireless to meet the needs of your branch and campus network deployments.

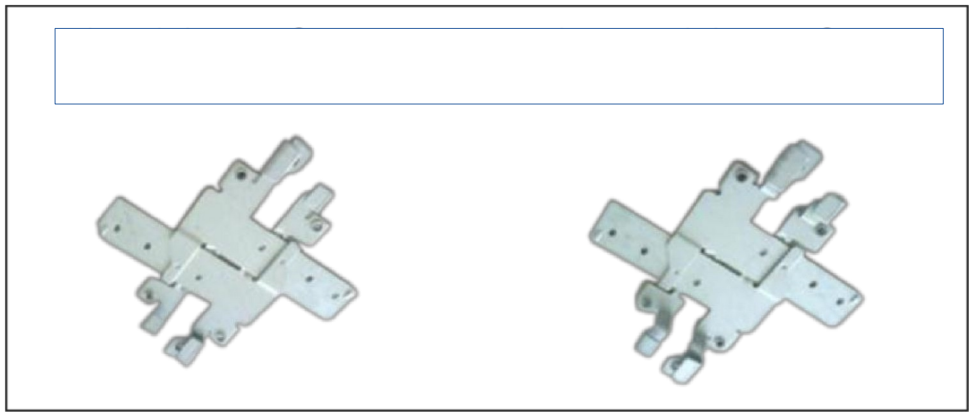

Figure 6.
Different clips are available for attaching to ceiling grid work

Channel rail adapters - DEVICE part number AIR-CHNL-ADAPTER

When mounting APs to ceiling channel rails such as the ones shown in Figure 10, an optional channel adapter is used: AIR-CHNL-ADAPTER. It comes in a two-pack and attaches to the ceiling grid clip above. Refer to Figures 11 and 12.

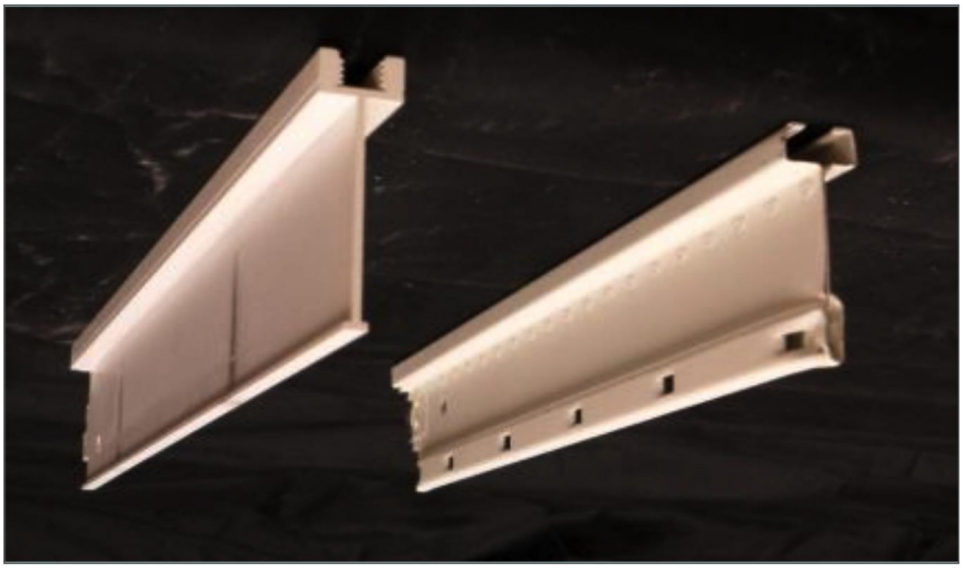

Figure 7.
Example of channel rails

- Ideally you should have at least 802.3at (30W PoE) available.
- Wi-Fi 6 might help mitigate a poor design, but nothing beats installing it right the first time.

There are many tools out there to model and perform site surveys. DEVICE has recently worked with Ekahau to import DEVICE APs and antenna models into their application, which also includes the ability to model BLE as well. The Citelyst 7733 AP model will be in the next maintenance release (current is 10.0.1).

Figure 39.
Ekahau offers a site survey and WLAN planner software

If you are doing an active survey for placement, it is always best to have the equipment you plan to deploy. Having the actual model that is being planned for is not always possible at the time that planning is being done. DEVICE spends a great deal of effort to ensure that newer-model AP's RF coverage matches closely with previous models of APs to reduce the cost of planning and replacing APs. The C7733 is no different. The below graphic shows the C7733 as compared with the AP3802i on the same channel and power, as an example only. Surveying using an alternate AP is suitable for Bill of Material (BOM) generation or updates to an existing installation. Critical coverage should always be measured using the same model to be certain of the results.

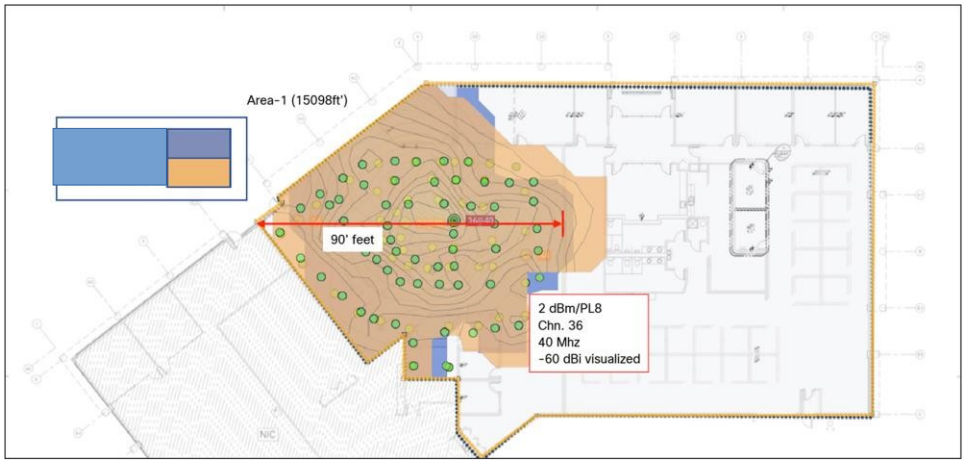

Figure 40.
Comparison of C7733 and AP3802i coverage patterns as measured over the air