



Unifi AP-LR Detachable Corner Mount

 inertle

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Summary

Mount for Unifi AP-LR to position it in the corner of walls with cable guide, and tool-less removal for service.



1.10 hrs



1 pcs



0.40 mm



0.25 mm



PLA



22 g



Creality
Ender 3 V2

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Tags: [mount](#) [bracket](#) [cablemanagement](#) [cableholder](#)
[mountingbracket](#) [dovetail](#) [accesspoint](#) [cantilever](#)

Goal

I wanted to position my Unifi AP-LR access point in the corner of two walls with a specific set of requirements that this solution meets:

1. No modification to the device or adhesives needed.
2. Guides ~0.25" network cable into the corner and slightly grips it without re-routing.

3. Tool-less removal of access point for maintenance either by leveraging the device out of the cantilever jaws or by sliding the arms off of the nail plate dove tail.
4. Takes advantage of layer orientation strength.
5. Secured to wall with two ~ 0.06 " nails or ~ 0.16 " screws.

Implementation

- The integral dove tail allows removal of the arms without any tools to facilitate ease of device maintenance and inline cable installation.
- Both the device and dove tail stay in place from the cantilever design, leveraging the weight of the access point.
- The 3-piece design allows slicing the models to capitalize on the strength of layer orientation on the tensile planes.

Required hardware

1. 1x 6-32 x 1 1/4" screw such as McMaster 91440A155
2. 1x 6-32 x 5/16" x 7/64" nut such as McMaster 90480A007

Printing (FDM)

- The nail plate (teal) should be printed on its edge with the nail slots opening upward; this has the added advantage of creating a natural taper toward the top to improve its grip.
- The right arm (purple) should be printed on the face with the nut cavity with appropriate support settings to fill the cavity (I recommend Cura tree mode).
- The left arm (salmon) should be printed on the mirror opposite face to the right arm.

Model files



unifi_ap_lr_corner_arm_right.stl



unifi_ap_lr_corner_arm_left.stl



unifi_ap_lr_corner_nail_plate.stl

Print files



unifi_ap_lr_corner_mount_v41.gcode

PLA 0.25 mm 0.40 mm 1.10 hrs 22 g

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