



Heltec v3-mini case for Meshtastic

T TonyG

VIEW IN BROWSER

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Summary

This is a small case for the Heltec v3 boards, designed with the Meshtastic project in mind (<https://meshtastic.org>).

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Tags: [esp32](#) [lora](#) [meshtastic](#) [heltec](#) [lora32](#) [heltecesp32](#)
[helteclora](#) [offgrid](#)

****You can purchase this case and others already printed:****

US customers can purchase from QuantumShadow3D:
(<https://www.etsy.com/shop/QuantumShadow3D>)

UK/EU customers can purchase from 3DChicken:
(<https://www.3dchicken.co.uk>)

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With all that said, now on to the models...

Update 13 Apr 2024:

- Updated nearly all models:
 - Frames and back covers now support battery size of 103665 (similar to MakerFocus 3000mAh lipo pack)
 - Multiple thickness options for back covers

This is a small/"mini" case for the Heltec v3 boards, designed with the Meshtastic project in mind (<https://meshtastic.org>).

There are five models required for a complete case, as well as socket head cap screws and a SMA antenna pigtail cable; refer to the parts list below.

Required hardware:

1. Four (4) M3x20mm socket head cap screws
2. Four (4) M3 nuts
3. Battery: <https://www.amazon.com/MakerFocus-Rechargeable-Protection-Insulated-Development/dp/B0867KDMY7> or similar size 1000-1100mAh battery (47mm x 30mm x 8mm / 1.41" x 0.84" x 0.23" (LxWxH))

Optional hardware:

1. GoouuuTech GT-U7 GPS module (ublox NEO-6M chip) or similar size GPS module: <https://www.amazon.com/Navigation-Positioning-Sensitivity-Consumption-High-Precision/dp/B08MZ2CBP7> (also available via Ali Express)
2. 3-pin on/off two-position panel mount slide switches for GPS and/or power: <https://www.amazon.com/gp/product/B06XFXWLJP>
3. Laser-cut acrylic window (see note below)

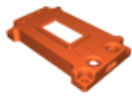
Minimum required model files:

1. Heltec-v3-mini_front-<pattern>
+OR+ Heltec-v3-mini_front-noscreen-<pattern>
2. Heltec-v3-mini_back-<pattern>
+OR+ Heltec-v3-mini_back-18650-<type>
3. Heltec-v3-mini_frame-noSwitch/GPSswitch/powerSwitch/powerSwitch-GPSswitch
4. Heltec-v3-mini_button-<size> (requires two; medium size recommended)

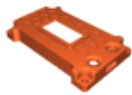
There are multiple versions of the Heltec-v3-mini_front-xxx model, including noscreen versions (no need to remove the screen, it's just covered up).

I've also included the SVG file for an optional laser-cut acrylic window using 1mm or 1.5mm acrylic. If you want one but don't have a laser cutter [I sell them on my Etsy store](#).

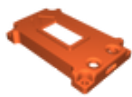
Model files



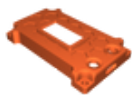
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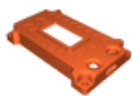
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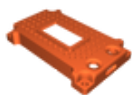
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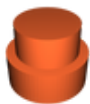
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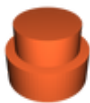
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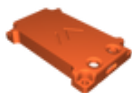
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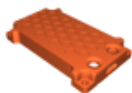
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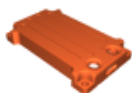
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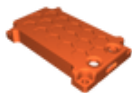
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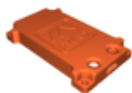
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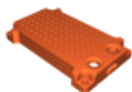
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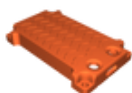
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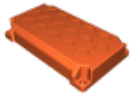
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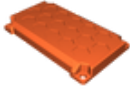
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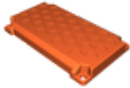
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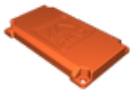
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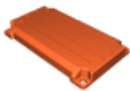
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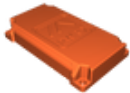
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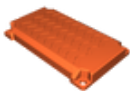
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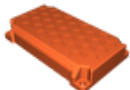
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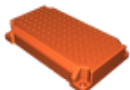
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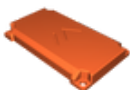
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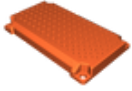
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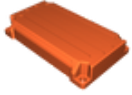
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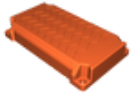
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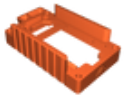
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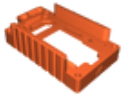
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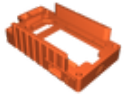
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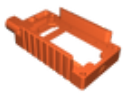
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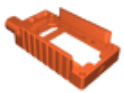
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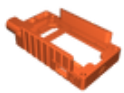
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heltec-v3-mini_v16_frame-int-antenna-powerswitch.stl



heltec-v3-mini_v16_frame-int-antenna-gpsswitch.stl

Other files

laser-cut_acrylic_window_insert.svg

📄 SVG file for optional laser-cut acrylic case windows

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