



Heltec v3 case for Meshtastic

T TonyG

VIEW IN BROWSER

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Summary

This is a 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](#)
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****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 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: 18650 cell (protected cells are highly recommended for safety!) or flat lithium polymer type. Flat lithium ion battery compartment maximum dimensions: 70mm x 28mm x 16mm (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)

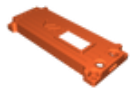
Minimum required model files:

1. Heltec-v3_front-<pattern>
+OR+ Heltec-v3_front-noscreen-<pattern>
2. Heltec-v3_back-<pattern>
+OR+ Heltec_v3_back-18650-<type>
3. Heltec-v3_frame-noswitch/GPSswitch/powerSwitch/powerSwitch-GPSswitch
4. Heltec-v3_button-<size> (requires two; medium size recommended)

There are multiple versions of the Heltec-v3_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](#).

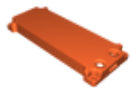
Model files



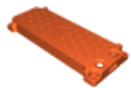
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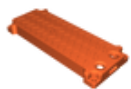
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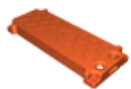
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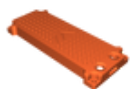
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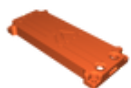
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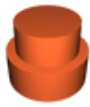
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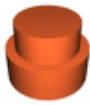
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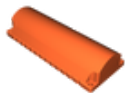
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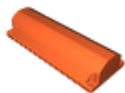
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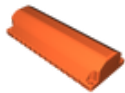
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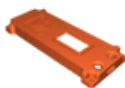
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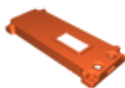
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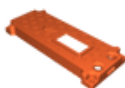
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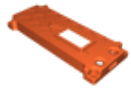
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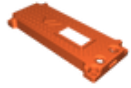
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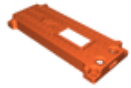
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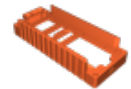
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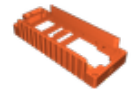
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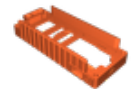
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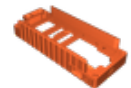
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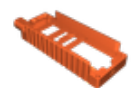
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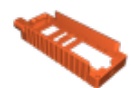
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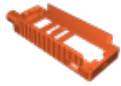
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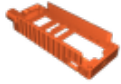
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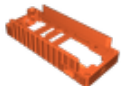
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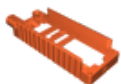
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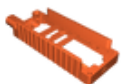
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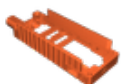
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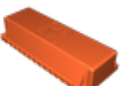
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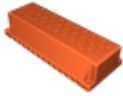
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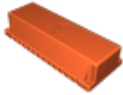
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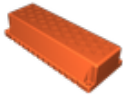
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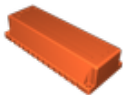
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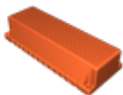
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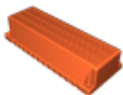
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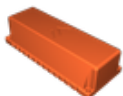
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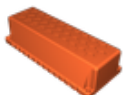
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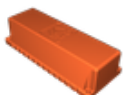
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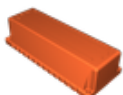
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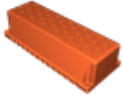
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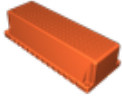
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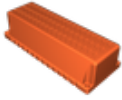
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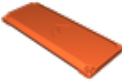
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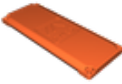
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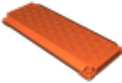
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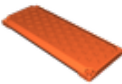
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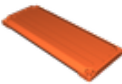
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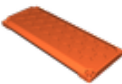
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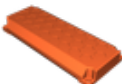
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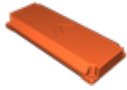
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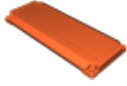
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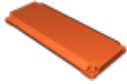
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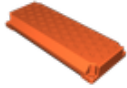
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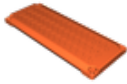
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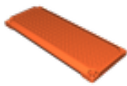
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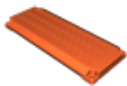
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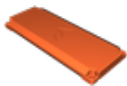
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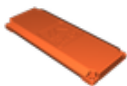
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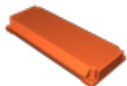
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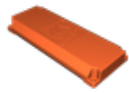
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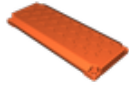
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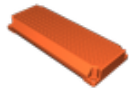
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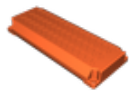
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heltec_v22_back-7mm-hexagons.stl



heltec_v22_back-11mm-dots.stl



heltec_v22_back-11mm-waves.stl

Other files

laser-cut_acrylic_window_insert_v2.svg

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