Give A Little DIY Donation Frame LM84

For Lenovo M8 Gen 4 Tablet & SumUp Air or Stripe WisePad 3 Card Readers
Last updated 30.11.2023

Thank you for purchasing a Give A Little DIY Donation Frame from The 3D Room.
This enclosure is designed specifically to fit the Lenovo M8 Generation 4 (Gen 4) tablet - it is not suitable for other makes/models/generations of tablet.

We've put together a quick guide on how to assemble the enclosure, route the cables and fit the card reader and tablet. The sections are arranged so they take you through the required steps in the correct order. We recommend that you have a practice-run on your desk prior to final assembly to familiarise yourself with the process and components.

Please read the guide fully before proceeding with your installation.

Unboxing

The front and rear frame are assembled before shipping. Although the side fixing screws have not been installed, a lip around the edge of the front frame friction fits the rear. To remove the front, you can use your fingers or a credit card to work around the outer edge, separating the two parts. Once the lip has come free of the rear, simply lift the front frame from the rear housing.
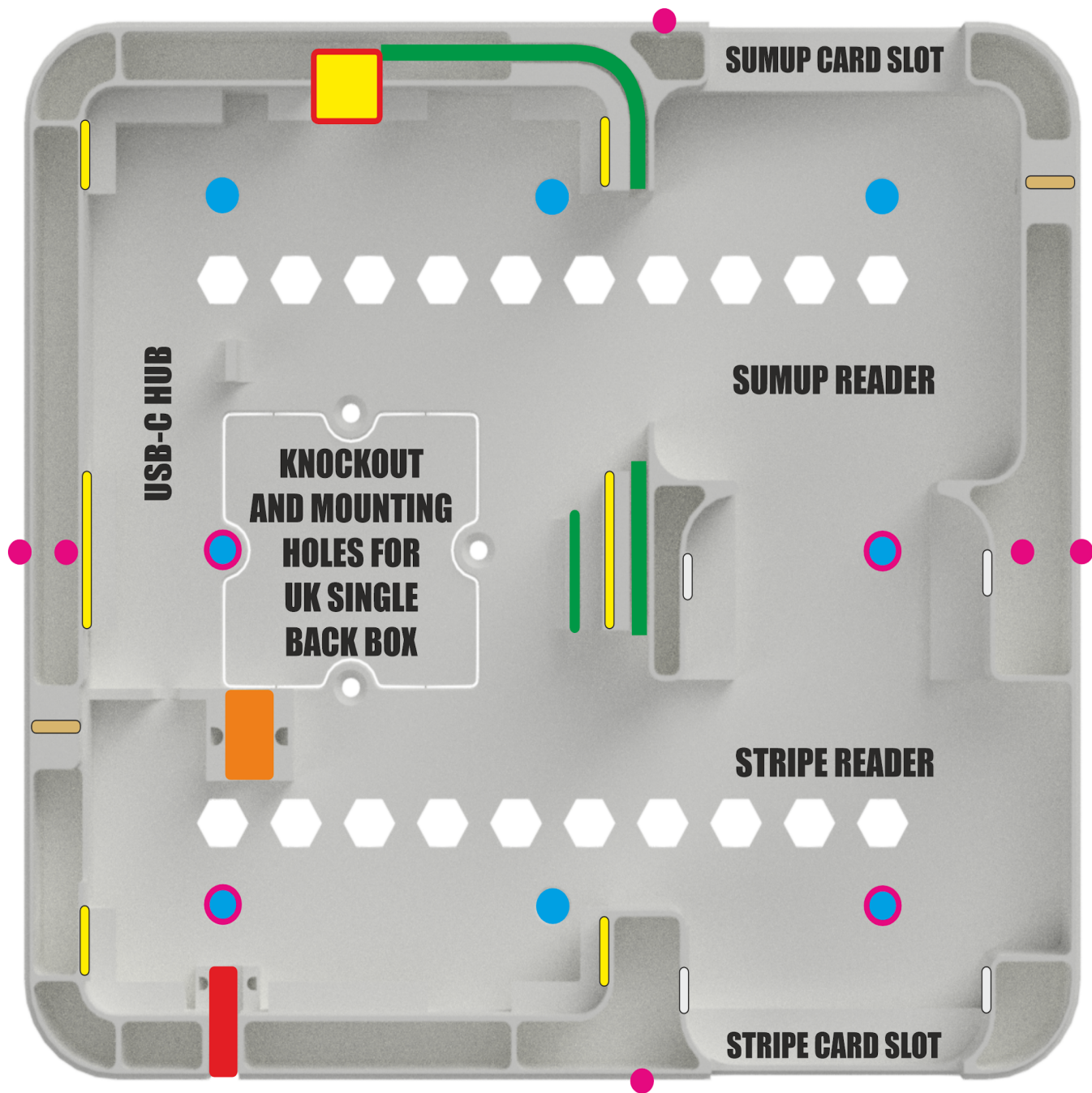

Device Locations

The Donation Frame is designed to use either a SumUp Air or Stripe Wisepad 3 card reader. It has also been designed to house a USB-C hub and specific cables from UGREEN. Cable channels are provided so make internal wiring as tidy as possible. There are also 2 cable tie bases that, although optional, allow you to minimise the chances of cable being pulled out of the hub.

The USB-C hub serves two purposes. Firstly allowing a single cable from a wall charger to power both the tablet and card reader. Secondly, to provide USB communication between the Stripe Wisepad 3 and the tablet/Givalittle app.

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There are also two keyholes on the side of the rear frame. These provide access to the power buttons of both the tablet and (if used) SumUp card reader using the supplied 'key'. This prevents the devices from being accidentally (or intentionally) powered off by more curious users.

Holes on the sides and back of the rear frame allow the front to be securely attached using M3 screws.

Rear Frame Locations

Tablet Retaining Clips · Stripe WisePad Retaining Clips · Main USB Power Cable Entry
Tablet Power Connector Opening · Internal Cable Tie Base · Internal Cable Channels
Wall Mounting Holes · Wall / Desk Leg Mounting Holes
Power Key Holes · Front Frame Security Screw Holes (side and rear)

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Wall Mounting

Multiple mounting holes are provided, together with a knockout area and 4 holes that have the same spacing as those on a single UK backbox (as used behind a light switch or single socket). The back box mounting holes are designed to accept the standard 3.5mm screws normally used to mount a switch or socket. The remaining mounting holes are sized to accept 4mm countersunk screws.

If the mounting location is temporary or you are unable to use screw-fixings, wall mounting is still possible using 3M Command Strips. Be sure to follow the instructions provided with Command Strips to obtain a reliable fixing.

Attaching Optional Legs For Desk Mounting

The optional legs should be attached prior to adding the USB-C hub, routing cables and adding the card reader and tablet. They attach to the rear frame using countersunk M4 machine screws/bolts included with the legs.

Cable Routing

Prior to mounting the tablet and card reader, place the USB-C hub into the rear frame and route the USB cables. If you have chosen to use a different hub or longer cables, experiment to find the tidiest way to route the power cables to their required locations. If using the recommended cables and hub, see the suggested cable paths below:

= = = Hub to USB-C Coupler   **━━** USB-C Coupler   **= = =** USB-C Coupler to Tablet

= = = Card Reader to Hub

     WisePad 3: Right Angle USB-C to USB-A

     SumUp Air: Micro-USB to USB-A

Right angle USB-C to Right Angle USB-

= = = USB Charger to Hub

Right Angle USB-C to USB-A

Note: USB-C Coupler

Although USB-C connectors can be plugged in either way round, we have found the cable from the USB-C Hub to the USB-C coupler will only operate in one orientation. To test the correct orientation, temporarily connect everything (including the tablet) and plug in to the charger. If there is a light on the USB-C coupler, all is good. If no light appears, unplug the hub connector from the coupler, flip it the other way up and plug it back into the coupler. The light should illuminate and the tablet/card reader will power on. Once you have ascertained the orientation is correct, complete routing the cables.

Installing the Tablet

Ensure the tablet is the right way up, i.e. with its USB-C connector facing the top of the rear frame. This may appear to be incorrect but placement of the power button and SumUp reader forces the tablet to be in this orientation (with the camera at the bottom). Plug in the USB-C connector.

With the tablet at an angle, insert the left hand edge under the retaining clips on the outer edge of the rear frame.
Then, let the right hand side of the tablet rest over the retaining clips in the middle of the frame. Apply firm pressure to push the tablet under the clips. The frame will flex during this process and a reasonable amount of force is required. This is by design, as you do not want the tablet to fall out of the frame. Do not be 'afraid of it'!

Installing the Card Reader

SumUp Air

This reader simply drops into place and the cable can be connected before or after placement. The Micro-USB connector used will only fit in one orientation so it may be easier to plug in before placing into the frame.

Stripe WisePad 3

There are small mounting clips to hold the WisePad in place. Plug in the right-angled USB-C connector prior to mounting. Place the left side of the reader under the corresponding clips, then apply pressure to the right hand side to push the reader down and under the right hand clips.

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Blanking Plate - Unused Reader

Blanking plates are supplied to fill the space left by the empty card reader location.
The plate is simply dropped into place before attaching the front frame. Take note of the orientation as one edge is designed to block the unused card slot opening.

The Front Frame

Give your setup a final operational test before attaching the front frame!
Installation is simply a matter of lining up the raised areas on the back of the front with the corresponding openings on the rear frame. Drop it into place, then apply some pressure from the front, working around the edges, pushing it fully into place.

If you need to remove the front frame, use the same process as described in the unboxing section.

Side/Rear Screws

Brass threaded inserts within the front frame allow M3 hex screws to be used in order to lock the front and rear frame together. Screws can be used on all sides of the frame.

There are also two screw holes on the rear of the frame. These are provided for added security when the enclosure is desk mounted and can also be used as wire hanging points if mounting the enclosure inside a window or glass screen (for fixed amount 'Tap & Go' donations).

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Power Key

Access to the power buttons of both the tablet and (if installed), SumUp Air card reader is via a power 'key'. This can be inserted into side openings on the enclosure:

Give A Little Campaign Settings

The front frame is designed to obscure both the navigation and status bars on the tablet in order to prevent 'inquisitive' users from exiting the donation app. To avoid areas of the donation screen from also being obscured, select a maximum of 3 donation amounts and set the button location to either middle or top within the Give A Little campaign builder.

Give A Little has provided a Canva template for your campaign which can be downloaded here.

The campaign template assumes you are displaying three donation amounts and the choose your own amount button. Buttons need to be positioned in the middle when uploading your design to Give A Little.

Appendix - Additional Components

Listed below are components we recommend for use with the 3D printed DIY Donation Frame.
While longer cables and an alternative hub could be used, we have chosen UGREEN items because they are of consistent quality and available worldwide, either directly from UGREEN or via Amazon or eBay. In addition, many cheaper brands of cables and hubs do not provide enough power to the tablet for it to charge with the screen on.

Note: The power cable supplied with the SumUp air can be used for connection to the hub. An additional right angled cable is however required for the Stripe WisePad (right-angle USB-C to straight USB-A).

Card Readers

- **SumUp Air**
  Connects to the tablet via Bluetooth and offers basic donation transactions. Can be purchased from a number of online and high-street retailers.
- **Stripe WisePad 3**
  Connects to the tablet via USB and offers additional functionality such as 'tap and go' and recurring donations. The Stripe WisePad 3 must be obtained from Give A Little.
  Please email the Give A Little team at hello@givealittle.co for further details.

Hub & Cables

- **USB-C Hub:**
  UGREEN Revodok 5-in-1 USB-C Hub (100W PD, 4K@30Hz HDMI)
  UGREEN SKU: 15495

- **Main Power Cable (Charger to Hub - Length to Suit Location)**
  UGREEN USB-A to USB-C (Right Angle) 18W Charger Cable
  1M Version: UGREEN SKU: 50941   2M Version: UGREEN SKU: 50942

- **USB-C Coupler (Connects Hub to Tablet Cable)**
  Unfortunately, UGREEN does not produce a suitable coupler. There are many examples of a suitable device on both Amazon and eBay.

  The version used in our tests is the ***Maxhood USB C Female to Female Adapter*** pictured. This coupler supports both data and charging - if purchasing an alternative, ensure your version of choice has the same features.

- **Double Right Angle USB-C Cable (from USB-C Coupler to Tablet)**
  USB-C to USB-C (Double Right Angle) Charger Cable - 0.5m
  UGREEN SKU: 10358

- **USB-A to USB-C (Right Angle) Cable (Stripe WisePad 3 to hub - The SumUp Air can use the cable included with the device.)**
  0.5m USB-A to USB-C (Right Angle) 18W Charger Cable - UGREEN SKU: 50940

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Wall Mounting Components

As there are many potential wall types, we can only provide screw sizing - your handy person will be able to determine the type of wall fixing required.

- **Direct Wall Mounting:** *4mm Countersunk Screws*
- **Over-Back Box Mounting:** *3.5mm countersunk electrical box screws*
- **Non-Permanent Wall Mounting:** *20mm wide Command Strips*
  Follow the instructions precisely, otherwise adhesion can be poor!

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