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MoBo Extrusion (#700-xxxxx) and Panels (Various Part Numbers, Available Separately)

General Description

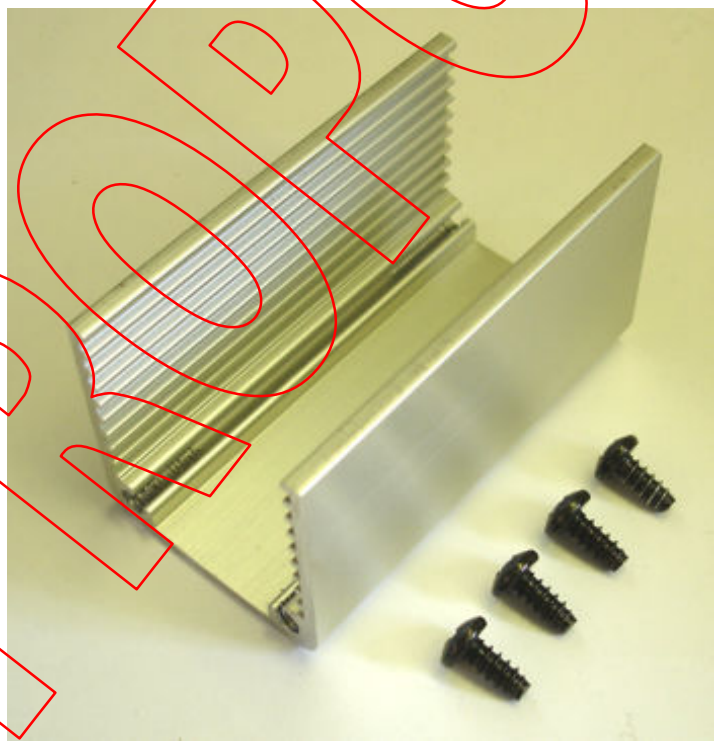
The MoBo Extrusion, when combined with the separately available top and end panels, provides a convenient and attractive way to house devices built up from Parallax motherboards, such as the MoBoStamp-pe (#28300), and the various daughterboards that plug into them.

Features

- Attractively grained and clear anodized extrusion, cut to length (2.75").
- Black-finished stainless self-threading panel screws.
- Flat black laminate panels available separately to fit various motherboard/daughterboard combinations.

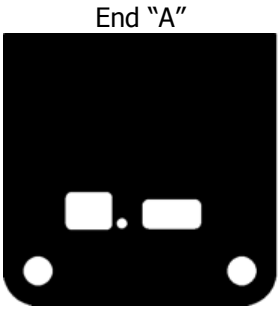
Out of the Box

What's Included with the Extrusion

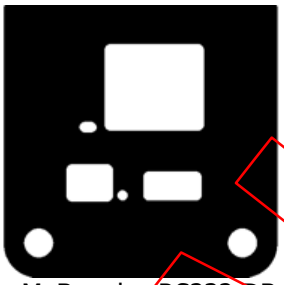


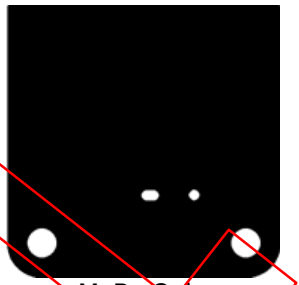
2.75" Long Pre-cut Extrusion and Four Panel Screws

End Panels (Available Separately)

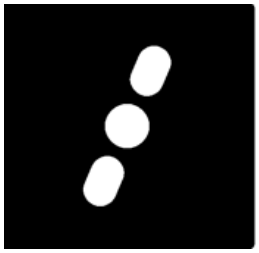

End "A"
MoBo Only

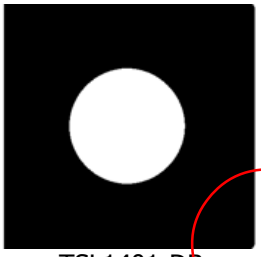

End "A"
MoBo, plus PWR-I/O-DB


End "A"
MoBo, plus RS232-DB

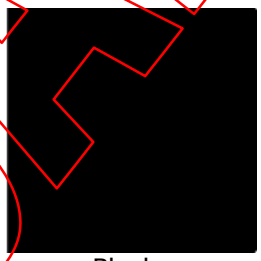

End "B"
MoBo Only

Top Panels, Mounting Bracket, and Elevator Socket (Available Separately)


TCS230-DB


TSL1401-DB


PWR-I/O-DB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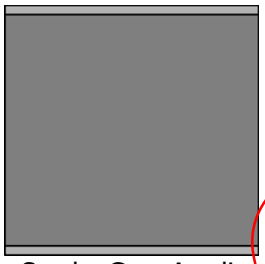
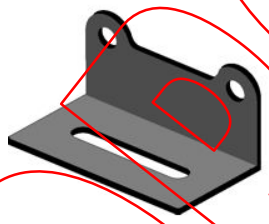
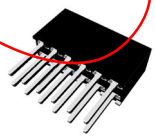

Smoke Gray Acrylic for 7Seg-DB(M)


Mounting Bracket

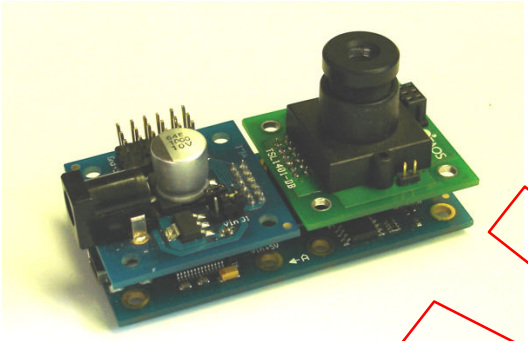

Elevator Socket

What You Need to Provide

- Parallax Motherboard (e.g. MoBoStamp-pe, #28300).
- Optionally, one or two Parallax Daughterboards (e.g. PWR-I/O-DB, #28301).
- Cables, Power Supply (if not USB powered), etc.
- Two end panels and two top panels (from the above selections).
- Elevator socket (#450-xxxxx) if using 7Seg-DB(M).
- Phillips Screwdriver for assembly.

Assembly Instructions

1. Remove the screws and standoffs supplied with the motherboard. You will not need them.
2. Assemble the motherboard with (optionally) one or two daughterboards. If you are using the 7Seg-DB(M), assemble it with the elevator socket (#450-xxxxx). Do not plug it directly into the motherboard, or it will be sunk too far behind the acrylic lens. (The elevator socket raises the daughterboard by two slots in the extrusion. For example, if you want the lens of a TSL1401-DB to protrude by an extra quarter inch, use an elevator socket. It won't work with interface boards that have connectors on the end, since they will no longer align with their respective end panels.)

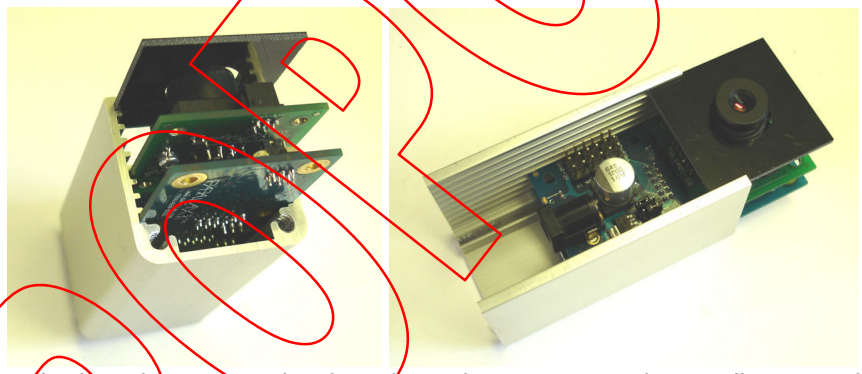


MoBoStamp-pe, assembled with PWR-I/O-DB and TSL1401-DB

3. Slide the completed assembly into the extrusion so that the motherboard is in the bottom slot. Any top panels through which a daughterboard component may protrude will have to be inserted simultaneously with the circuit boards.

ASSEMBLY NOTE: The top of the extrusion bows in slightly. You may have to spread it with your fingers to get the top panels to slide in properly. The fit will be snug, but not too tight.

VERY IMPORTANT: The top panels have two slightly rounded corners and two squared corners. The two rounded corners must face inward, with the squared corners on the ends. This will ensure proper alignment with their respective daughterboards.



Motherboard, Two Daughterboards, and One Top Panel, partially inserted.

4. Slide any remaining top panels.

Boards Fully-assembled with Top Panels

5. Using the screws provided with the extrusion, attach the end panels, being careful to ensure that all protruding connectors find their way into their corresponding cutouts. If you are also using the mounting brackets, they should be attached at the same time, to the outside of the end panels. The "feet" can point either outward or inward.

AESTHETIC NOTE: The cutout laminate panels can sometimes be a little bit gray around the edges. For an improved appearance, it's nice to make them darker to match the black surfaces more closely. You can accomplish this very easily *before assembly* by applying a small amount of aerosol furniture wax (e.g. Pledge) to the edges and buffing them dry with a soft cloth.

Completed Assembly, with End Panels and One Mounting Bracket