

Pi-Box Pro 5/5+ and Rack Fronts for Raspberry Pi5/5+

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Pi-Box Pro 5 Enclosures



MP013548



MP013549

Pi-Box Pro 5+ Enclosures



MP013553



MP013554

Description

The Pi-Box Pro 5 and Pi-Box Pro 5+ are rugged industrial enclosure kits for the Raspberry Pi5 and Pi5+. By utilizing our Micro HDMI Pi5 extender board we can turn the power and Micro HDMI connectors through 90° so they are on the same plane as the Ethernet and USB connectors.

The rear panel is made from 3mm acrylic and allows communication via Bluetooth and Wi-Fi signals from the Pi5/5+.

The standard version allows access to the SD Card from the assembled enclosure.

Available in silver or black as standard.

Pi-Box Pro 5/5+ and Rack Fronts for Raspberry Pi5/5+

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The Pi-Box Pro 5 and Pi-Box Pro 5+ with heatsink kits come with:

- Extender Board
- Carrier Plate
- E-Case B Extrusion
- Aluminum End Plate
- Acrylic End Plate (For Wi-Fi & Bluetooth)
- Screws & Fixings
- Pi-Box Pro 4 heatsink kit also includes: Heat Blocks, Heat Transfer Pads & Screws

Heatsink

With the release of the Raspberry Pi5/5+, the temperature of the processor under 100% usage has become an issue. When the processor gets too hot it throttles back which could compromise the application that the Pi is being used to perform.

As a solution, we have developed a Heat Sinking Kit that consists of 2 aluminum blocks and adhesive pads that transfer the heat from the processor and the Ram chip to the aluminum carrier plate and then out to the enclosure, making the whole assembly a heat sink.

Temperature Test bench Test

We tested the Raspberry Pi5/5+ running at 100% over a 10-minute period to register the temperature rise of the processor. The tests were performed with a bare board, one housed in a Raspberry Pi Foundation plastic enclosure, one in a Pi-Box Pro 5/5+ silver housing, and one in a Pi-Box Pro 5/5+ black housing.

We saw a 19°C drop in operating temperature from 82°C in the bare board and plastic enclosure compared with the 63°C when housed in the Pi-Box Pro 5/5+ aluminum enclosure and heat kit.

Raspberry Pi with the Extender Board



Pi-Box Pro 5/5+ and Rack Fronts for Raspberry Pi5/5+



1U 19" Rack Fronts and Pi-Box 5 Enclosures



MP013550



MP013551



MP013552

Description

- A 1U 19" extruded aluminum rack panel milled to fit a removable PI-Box Pro 5 or 5+ unit(s).
- Available in 1-, 2- or 3-unit versions.
- Panels are available in black anodized with a brushed finish.
- PI-Box Pro 5/5+ units include a Heatsink Kit and Extender Board to align the power and micro-HDMI connectors onto the same plane as the Ethernet and USB connectors.
- Rack Fronts has a Heatsink Kit in its content. It is possible to order Rack Fronts alone without the Heatsink Kit.

Extrusion

Material : Aluminum 6063 T6 (HE9)
 Finish : Silver anodized 5µm or black anodized 10µm

Front End Plate

Material : Aluminum 5005 sheet
 Finish : Black anodized 10µm
 Thickness : 1.5mm

Rear End Plate

Material : Acrylic
 Finish : Black
 Thickness : 3mm

Features

- 1, 2, or 3 units wide
- Removable units
- Black anodized with a brushed finish.

Part Number Table

Description	Part Number
Pi-Box Pro 5 with Heatsink kit, RPI5, Silver	MP013548
Pi-Box Pro 5 with Heatsink kit, RPI5, Black	MP013549
Pi-Box Pro 5+ with Heatsink kit, RPI5, Silver	MP013553
Pi-Box Pro 5+ with Heatsink kit, RPI5, Black	MP013554
1U 19" Rack Panel, Black, x1 Cutout	MP013550
1U 19" Rack Panel, Black, x2 Cutout	MP013551
1U 19" Rack Panel, Black, x3 Cutout	MP013552

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