Raspberry Pi SD Cards

Published October 2024

Raspberry Pi Ltd

Overview

SD card quality is a critical factor in determining the overall user experience for a Raspberry Pi computer. Raspberry Pi's high-quality A2 microSD cards support higher bus speeds as well as the command queueing extension, which permits a degree of pipelining of random read operations; together these close some of the gap between SD card and NVMe SSD performance. Raspberry Pi SD Cards have been rigorously tested with Raspberry Pi computers to ensure optimal performance.

Raspberry Pi SD Cards are available in 32GB, 64GB, and 128GB variants, either unprogrammed or pre-programmed with Raspberry Pi OS. They are also available with Raspberry Pi-branded microSD-to-SD adapters and jewel cases.

Specification

Performance:	Speed Class: C10, U3, V30, A2 Random 4KB read performance: 3,200 IOPS (Raspberry Pi 4, DDR50) 5,000 IOPS (Raspberry Pi 5, SDR104) Random 4KB write performance: 1,200 IOPS (Raspberry Pi 4, DDR50) 2,000 IOPS (Raspberry Pi 5, SDR104) A2 microSD cards with support for DDR50 and SDR104 bus speeds and command queueing (CQ) extension
Capacity:	32GB, 64GB, or 128GB
Form factor/compatibility:	microSDHC / microSDXC, compatible with microSDHC- and microSDXC-supporting host devices
SD specification:	SD6.1
Operating voltage:	2.7–3.6V
Operating temperature:	-25°C to 85°C
Storage temperature:	-40°C to 85°C
Dimensions:	15 × 11 × 1 mm
Compliance:	For a full list of local and regional product approvals, please visit pip.raspberrypi.com
Production lifetime:	Raspberry Pi SD Cards will remain in production until at least **January 2028**

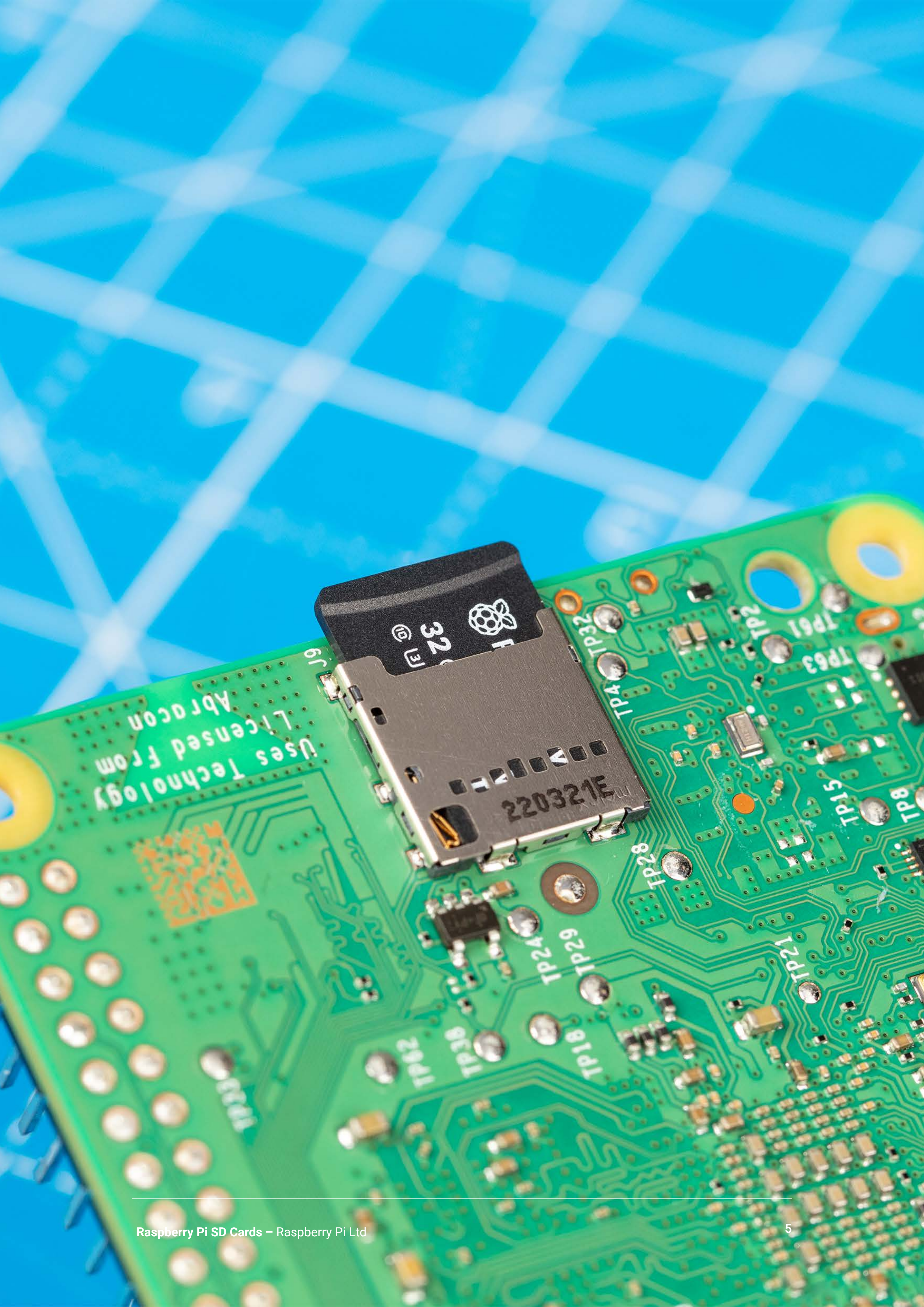
WARNINGS

- This product should be operated in a well ventilated environment, and if used inside a case, the case should not be covered.
- The connection of Raspberry Pi SD Cards to incompatible devices may affect compliance, result in damage to the unit, and invalidate the warranty.
- All peripherals used with this product should comply with relevant standards for the country of use and be marked accordingly to ensure that safety and performance requirements are met.

SAFETY INSTRUCTIONS

To avoid malfunction or damage to this product, please observe the following:

- Important: Before connecting this device, shut down your Raspberry Pi computer and disconnect it from external power.
- This device should be operated in a dry environment at normal ambient temperatures.
- Do not expose to water or moisture, or place on a conductive surface whilst in operation.
- Do not expose to heat from any source; Raspberry Pi SD Cards are designed for reliable operation at normal ambient temperatures.
- Store in a cool, dry location.
- Avoid rapid changes of temperature, which can cause moisture to build up in the device, affecting performance.
- Take care whilst handling to avoid mechanical or electrical damage to the connectors.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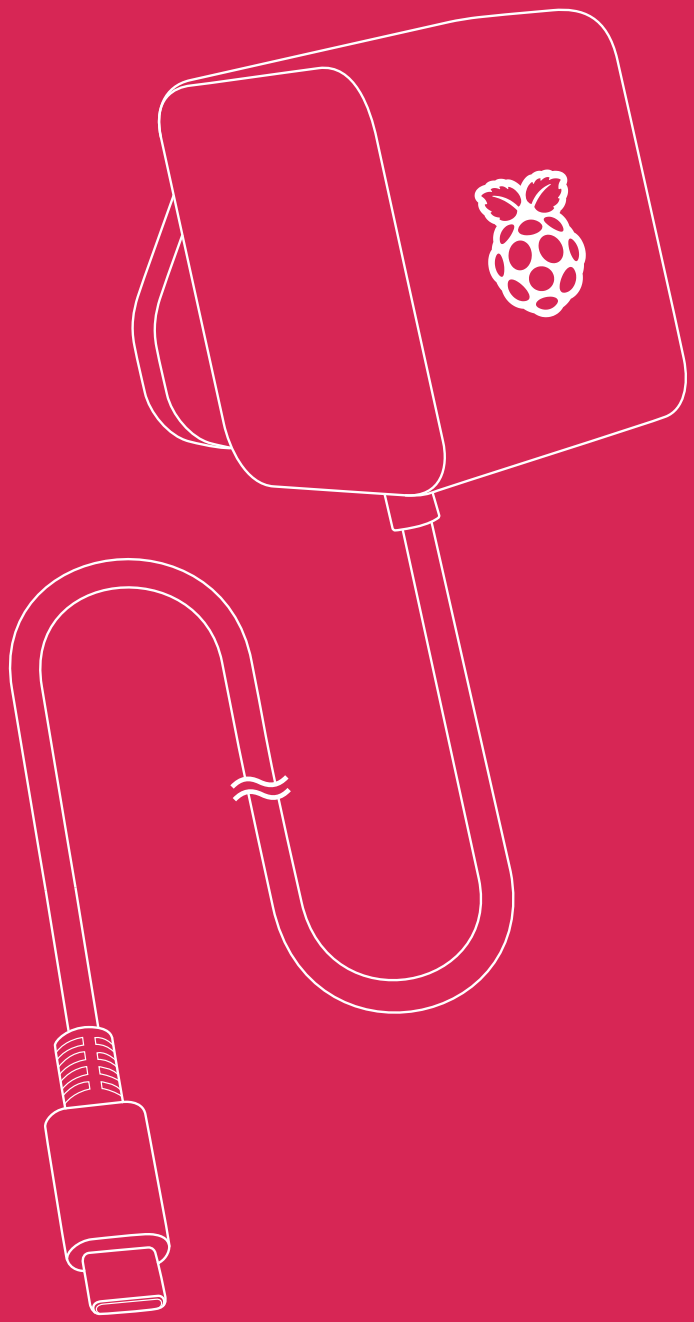
Raspberry Pi
27W USB-C Power Supply

Published October 2023



Raspberry Pi Ltd

Overview

The Raspberry Pi 27W USB-C Power Supply is an ideal power supply for Raspberry Pi 5, especially for users who wish to drive high-power peripherals, such as hard drives and SSDs, from Raspberry Pi 5's four Type A USB ports.

Delivering a maximum of 5.1V, 5A, it supports USB PD (Power Delivery), so Raspberry Pi 5 can communicate with it and select the most appropriate power profile. This enables Raspberry Pi 5 to increase the USB current limit automatically from the default 600mA to 1.6A, in order to provide extra power for devices connected to the four Type A USB ports.

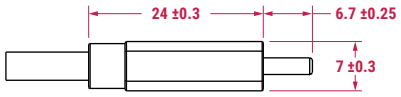
Additional built-in power profiles mean the Raspberry Pi 27W USB-C Power Supply is also an excellent option for powering third-party PD-compatible products. The available profiles are 9V, 3A; 12V, 2.25A; and 15V, 1.8A, all limited to a maximum of 27W.

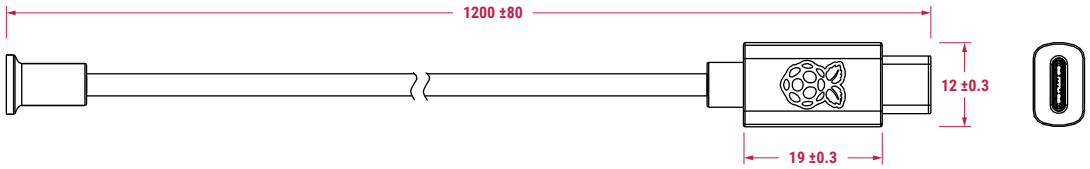
Specification

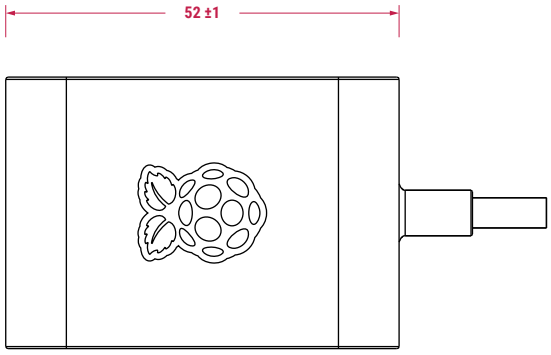
Input:	100 – 240Vac
Output:	5.1V, 5A; 9V, 3A; 12V, 2.25A; 15V, 1.8A (Power Delivery)
Connector:	USB-C
Cable:	1.2m 17AWG, white or black
Plug types:	• US, Canada (type A) • Europe (type C) • India (type D) • UK (type G) • Australia, New Zealand (type I)
Production lifetime:	The Raspberry Pi 27W USB-C Power Supply will remain in production until at least January 2035
Compliance:	For a full list of local and regional product approvals, please visit pip.raspberrypi.com

Physical specification

Type A







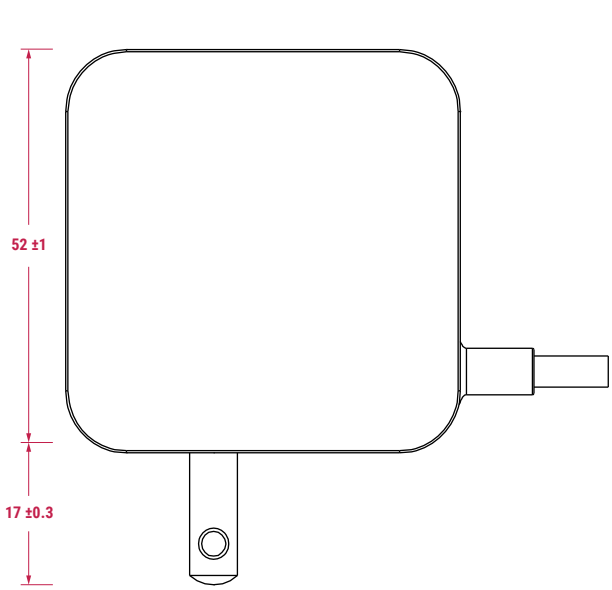
Note:

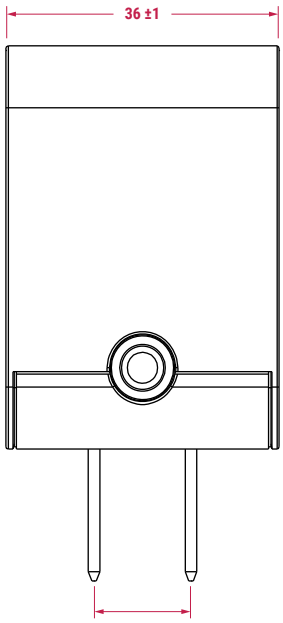
All dimensions in mm

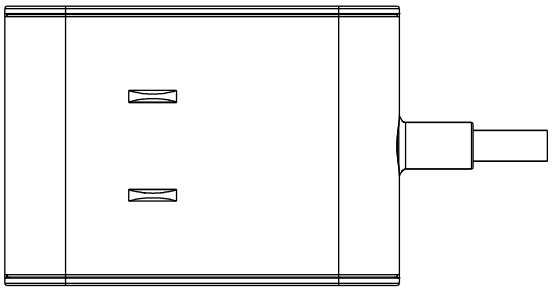
All dimensions are approximate and for reference purposes only. The dimensions shown should not be used for producing production data

The dimensions are subject to part and manufacturing tolerances

Dimensions may be subject to change

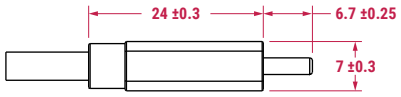


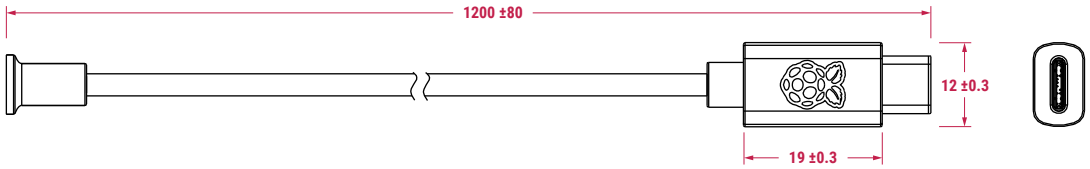


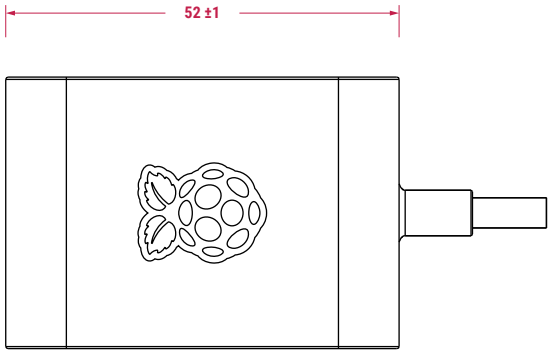


Physical specification

Type C







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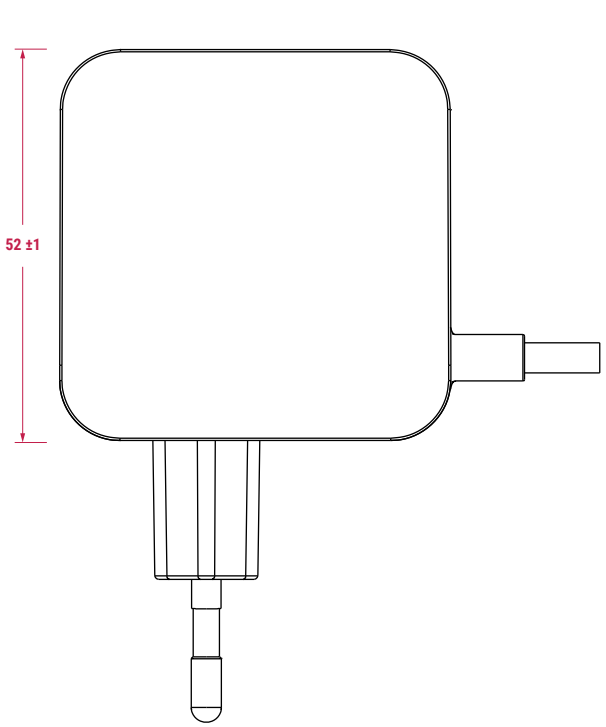
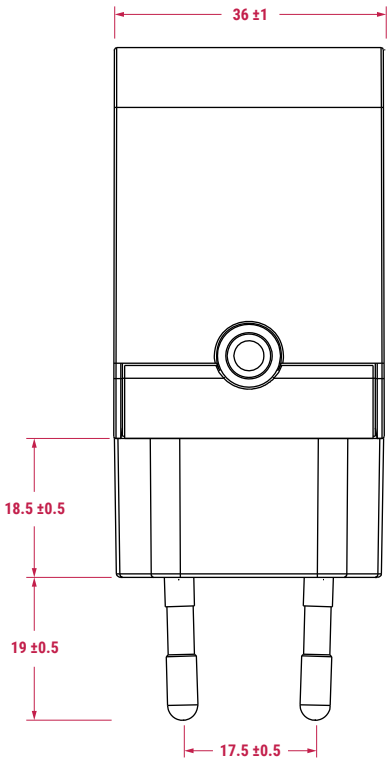
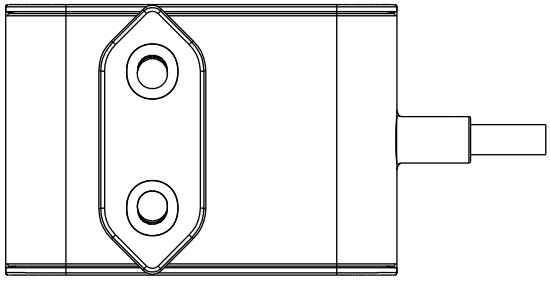
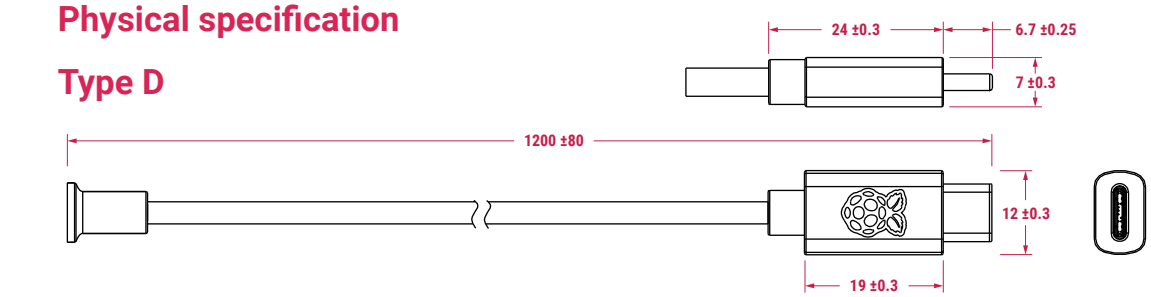


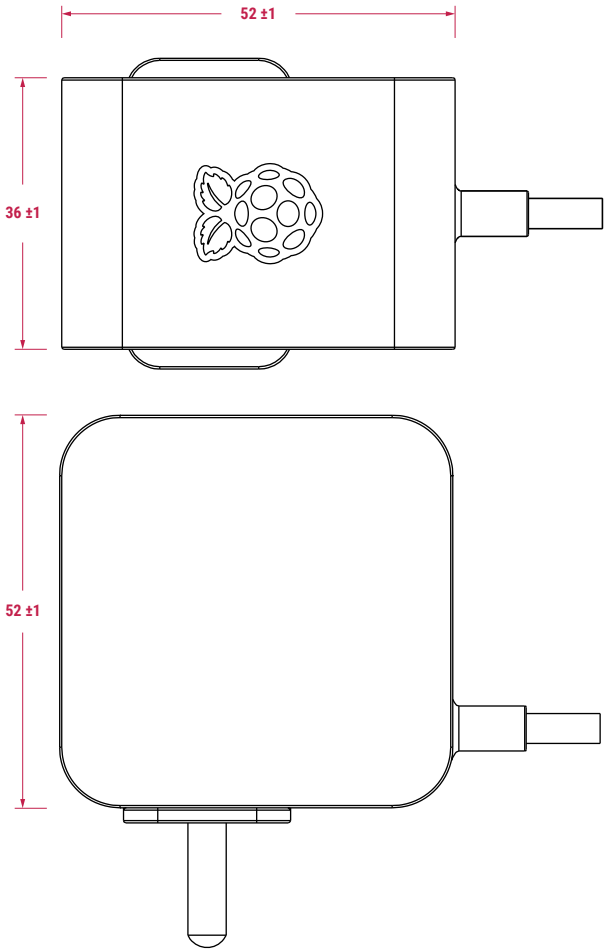




Physical specification

Type D





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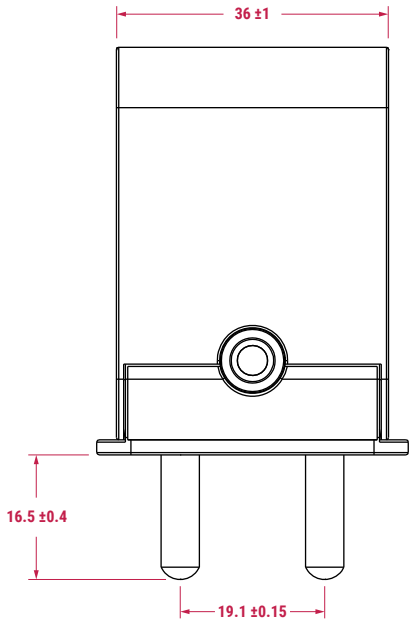
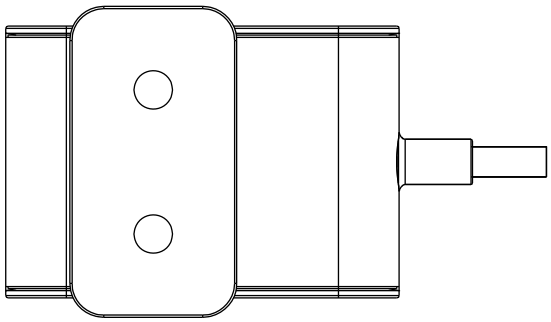
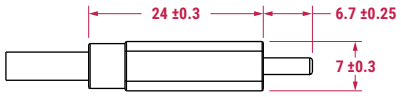
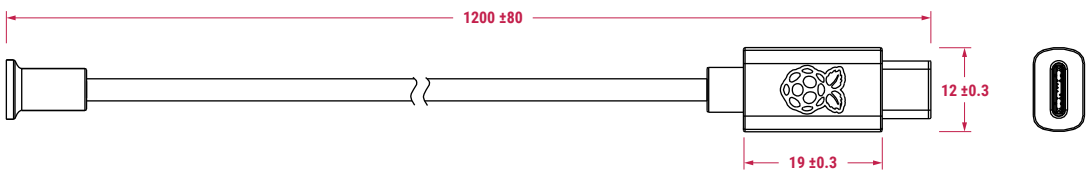


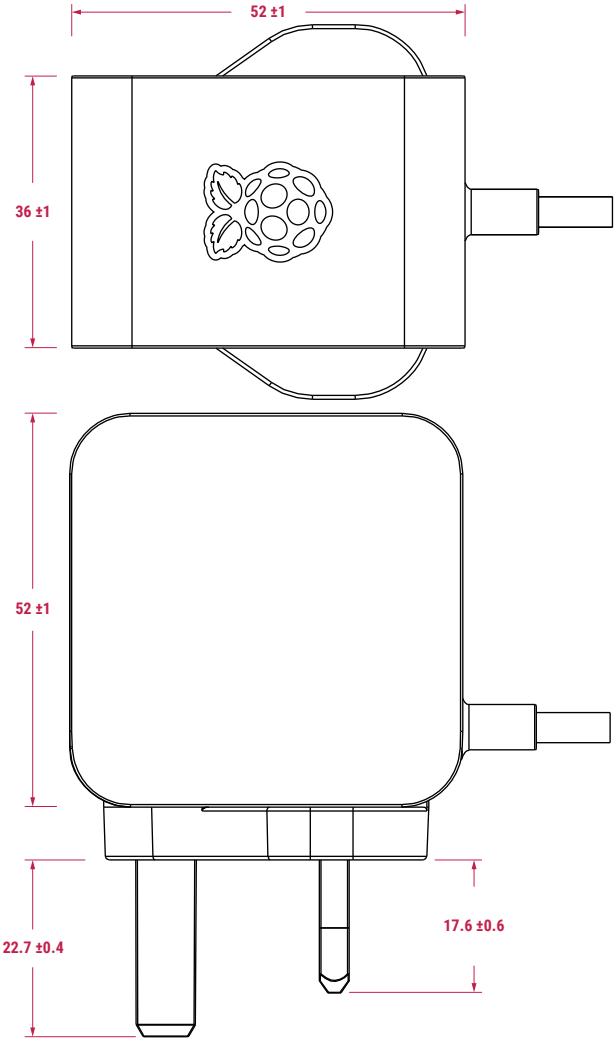


Physical specification

Type G







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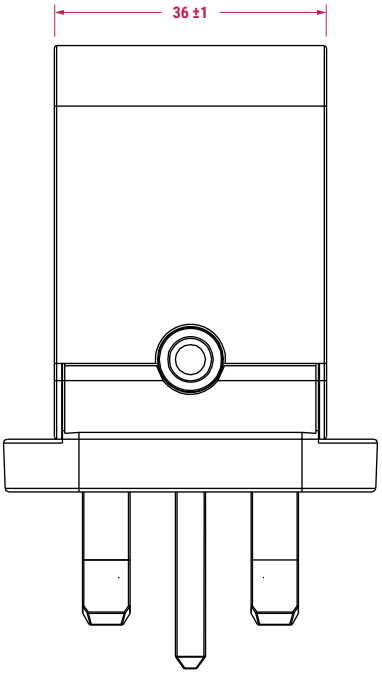
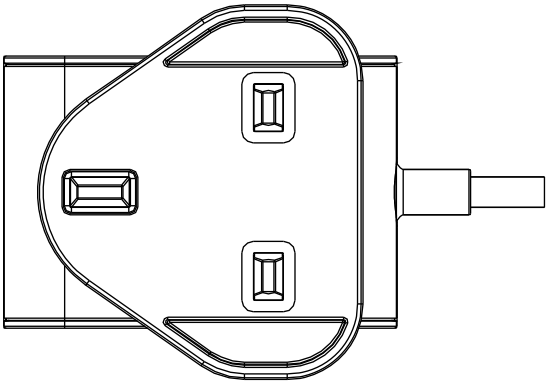
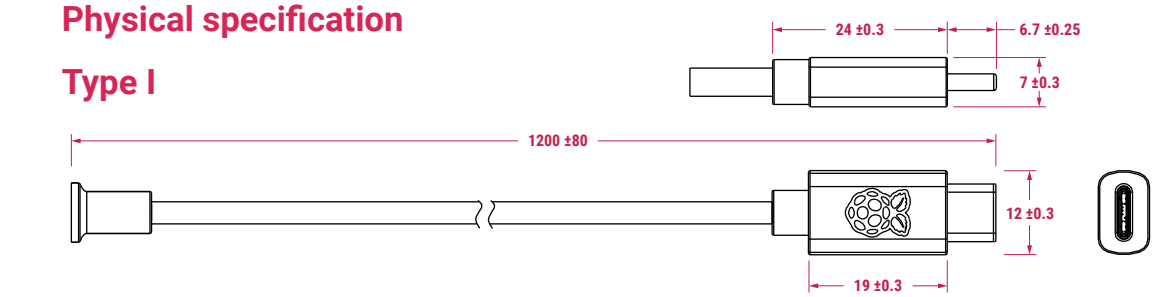
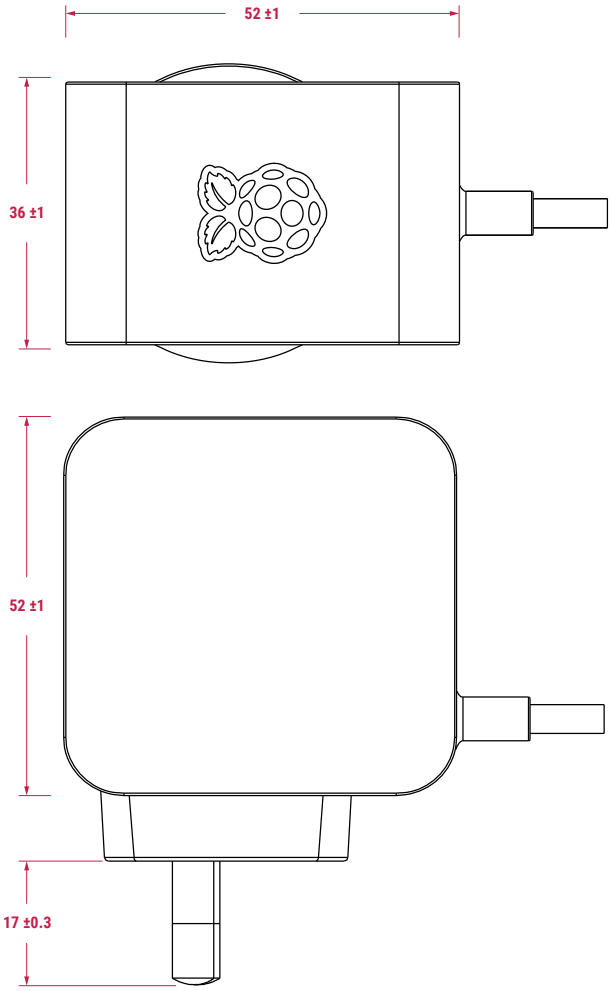




Physical specification

Type I





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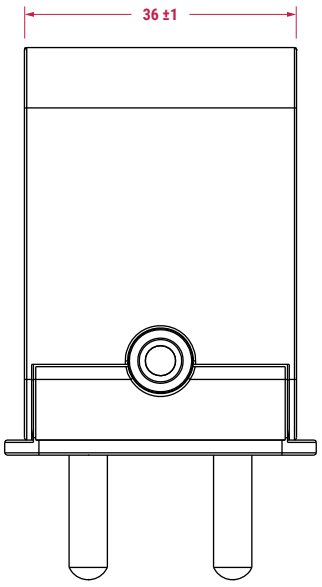

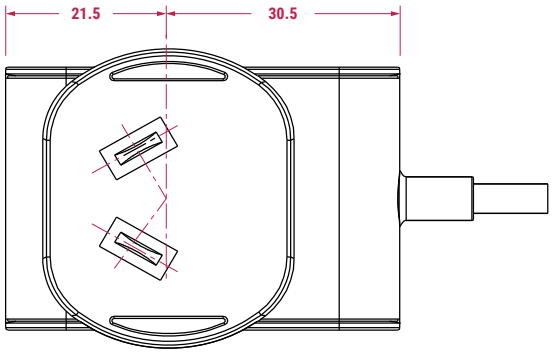

WARNINGS

- This product should be operated in a well ventilated environment.
- The connection of incompatible devices to this power supply may affect compliance, result in damage to the unit, and invalidate the warranty.

SAFETY INSTRUCTIONS

To avoid malfunction or damage to this product, please observe the following:

- Do not expose to water or moisture, or place on a conductive surface while in operation.
- Do not expose to heat from any source; this power supply is designed for reliable operation at normal ambient temperatures.
- Do not attempt to open or remove the power supply case.


Raspberry Pi
Raspberry Pi Power Supply UK
MODEL:27W USB-C 50/60HZ 0.8A
INPUT:100-240V~ 5.0A 25.5W, 9.0V 3.0A 27.0W,
5.1V 2.25A 27.0W, 15.0V 1.8A 27.0W
AC ADAPTOR
V1
UK CA