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Compute Module 3

The Compute Module 3 is a Raspberry Pi 3 in a more flexible form factor, intended for industrial application



Specification

The Compute Module 3 contains the guts of a Raspberry Pi 3 (the BCM2837 processor and 1GB RAM) as well as an optional 4GB eMMC Flash device (which is the equivalent of the SD card in the Pi). The Pi 3 has a processor speed of 1.2GHz and runs at roughly 10 times the speed of the Pi 1 due to its quad-core CPU. This is all integrated on to a small 67.6mm x 31mm board which fits into a standard DDR2 SODIMM connector (the same type of connector as used for laptop memory). The Flash memory is connected directly to the processor on the board, but the remaining processor interfaces are available to the user via the connector pins. You get the full flexibility of the BCM2837 SoC (which means that many more GPIOs and interfaces are available as compared to the Raspberry Pi), and designing the Module into a custom system should be relatively straightforward as we've put all the tricky bits onto the Module itself.

The Compute Module is available for purchase in single units, or in batches of hundreds or thousands. To get started designing a PCB to use the Module, we provide an **open-source** breakout board that hosts 120 GPIO pins, an HDMI port, a USB port, two camera ports, and two display ports.

The Compute Module 3 Lite brings the SD card interface to the Module pins so a user can wire this up to an eMMC or SD card of their choice.

Compliance

The Raspberry Pi Compute Module 3 (CM3) has undergone extensive compliance testing, and meets the following European standards:

- Electromagnetic Compatibility Directive (EMC) 2014/30/EU
- Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU

View and download global compliance certificates for Raspberry Pi products.