Raspberry Pi

Model	Depending on the model	Release	SoC	CPU Type	Cores	Clock rate (MHz)	CPU architecture	GPU type	RAM (MB)	RAM type	Memory card	eMMC (GB)	Pins	GPIO	USB 2.0	USB 3.0	LAN	WLAN (WiFi)	BT	Power Adapter	Connection	Dimensions (LxWxH) mm	Supports
Raspberry Pi 5 B	RAM varies	2023	BCM2712	ARM Cortex-A76	4	2400	64-bit	Broadcom VideoCore VII	max. 8192	DDR3	microSD		PCIe	40	26	2	2	2	1000	b/g/n/ac	5.0	5V/5A	USB type C	85x56x17	various Linux OS (Raspbian,...), Windows IoT
Raspberry Pi 4 B	RAM varies	2019	BCM2711	ARM Cortex-A72	4	1500	64-bit	Broadcom VideoCore VI	max. 8192	DDR4	microSD			40	26	2	2	2	1000	b/g/n/ac	5.0	5V/3A	USB type C	85x56x17	various Linux OS (Raspbian,...), Windows IoT
Raspberry Pi 3 B+	just one model	2017	BCM2837B0	ARM Cortex-A53	4	1400	64-bit	Mali-400MP2	1024	DDR2	microSD			40	26	4			1000	b/g/n/ac	4.2	5V/2.5A	Micro USB	85x56x17	various Linux OS (Raspbian,...), Windows IoT
Raspberry Pi 3 B	just one model	2016	BCM2837	ARM Cortex-A53	4	1200	64-bit	Mali-400MP2	1024	DDR2	microSD			40	26	4			100	b/g/n	4.1	5V/2.5A	Micro USB	85x56x17	various Linux OS (Raspbian,...), Windows IoT
Raspberry Pi 2 B	just one model	2015	BCM2836	ARM Cortex-A7	4	900	32-bit	Mali-400MP2	1024	DDR2	microSD			40	26	4			100			5V/2A	Micro USB	85x56x17	various Linux OS (Raspbian,...)
Raspberry Pi B+	just one model	2014	BCM2835	ARM 11	1	700	32-bit	Mali-400MP2	512	DDR2	microSD			40	26	4			100			5V/1.8A	Micro USB	85x56x17	various Linux OS (Raspbian,...)
Raspberry Pi 3 A+	just one model	2018	BCM2837	ARM Cortex-A53	4	1400	64-bit	Broadcom VideoCore IV	512	DDR2	microSD			40	26	1				b/n/ac	4.2	5V/2.5A	Micro USB	65x56x12	various Linux OS (Raspbian,...), Windows IoT
Raspberry Pi A+	just one model	2014	BCM2835	ARM 11	1	700	32-bit	Mali-400MP2	512	DDR2	microSD			40	26	1						5V/1A	Micro USB	65x56x12	various Linux OS (Raspbian,...)
Raspberry Pi Zero (v1.3)	just one model	2015	BCM2835	ARM 11	1	1000	32-bit	Broadcom VideoCore IV	512	DDR2	microSD			40	26	1						5V/0.5A	Micro USB	65x30x5	various Linux OS (Raspbian,...)
Raspberry Pi Zero W (v1.1)	with/without pin header	2017	BCM2835	ARM 11	1	1000	32-bit	Broadcom VideoCore IV	512	DDR2	microSD			40	26	2				b/g/n	4.1	5V/0.5A	Micro USB	65x30x5	various Linux OS (Raspbian,...)
Raspberry Pi Zero 2 W	with/without pin header	2021	BCM2710A1	ARM Cortex-A53	4	1000	64-bit	Broadcom VideoCore IV	512	DDR2	microSD			40	26	2				b/g/n	4.2	5V/2.5A	Micro USB	65x30x5	various Linux OS (Raspbian,...)
Raspberry Pi CM 4	RAM / eMMC /WLAN & BT varies	2020	BCM2711	ARM Cortex-A72	4	1500	64-bit	Broadcom VideoCore VI	max. 8192	DDR4	(microSD)	bis 32	(40)	(28)	(2)		(2)	b/g/n/ac	5.0	5V/0.6A / 12V/2A	Contacts / DC socket	55x40x5 / 160x90	various Linux OS (Raspbian,...)
Raspberry Pi CM 3+	eMMC varies	2019	BCM2837B0	ARM Cortex-A53	4	1200	64-bit	Broadcom VideoCore IV	1024	DDR2	(microSD)	bis 4	(116)	(48)	(1)		(+)				5V/0.6A / 12V/2A	Micro USB / contacts	68x31x2,5 / 106x85	various Linux OS (Raspbian,...)
Raspberry Pi CM 3	eMMC varies	2017	BCM2837	ARM Cortex-A53	4	1200	64-bit	Mali-400MP2	1024	DDR2	(microSD)	bis 4	(116)	(48)	(1)			(2)	(2)		5V/0.6A / 12V/2A	Micro USB / contacts	68x31x2,5 / 106x85	various Linux OS (Raspbian,...)
Raspberry Pi 400	different keyboard layouts	2020	BCM2711	ARM Cortex-A72	4	1800	64-bit	Broadcom VideoCore VI	4096	DDR4	microSD			40	26	1	2	2	1000	b/g/n/ac	5.0	5V/3A	USB type C	285x122x22	various Linux OS (Raspbian,...), Windows IoT

Arduino

Model	Depending on the model	Release	µC/Controller	Clock rate (MHz)	Bit	Voltage (V)	Flash (kB)	EEPROM (kB)	SRAM (kB)	Digital I/O Pins	with PWM	Analog Inputs	USB	SPI	I²C	I²C	TWI	UART	WiFi	BT	GSM	USB Battery Connect	CAN/RTC	Others	Input Voltage (V)	Connection	Dimensions (LxW) mm	Supports
Arduino Due	with/without socket connector	2013	AT91SAM3X8E	84	32	3,3	512		96	54	12	12	•	•	•		2	4					CAN, Erase-Button	5 / 7..12	Micro USB / 2.1 mm DC socket	102x53	Arduino Software (IDE) Sketch, C/C++
Arduino Leonardo	with/without socket connector	2013	ATmega32u4	16	8	5	32	1	2,5	20	7	12	•	•	•									5 / 7..12	Micro USB / 2.1 mm DC socket	69x53	Arduino Software (IDE) Sketch, C/C++
Arduino Mega 2560	just one model	2012	ATmega2560	16	8	5	256	4	8	54	14	16	•	•	•		4							5 / 7..12	USB type B / 2.1 mm DC socket	102x53	Arduino Software (IDE) Sketch, C/C++
Arduino Micro	with/without pin header	2013	ATmega32u4	16	8	5	32	1	2,5	20	7	12	•	•	•									5 / 7..12	Micro USB / pin header	48x18	Arduino Software (IDE) Sketch, C/C++
Arduino Nano V3	just one model	2013	ATmega328	16	8	5	32	1	2	14	6	8	•	•	•									5 / 7..12	Mini B USB / pin header	45x18	Arduino Software (IDE) Sketch, C/C++
Arduino Uno Rev 3	DIP or SMD variant	2014	ATmega328	16	8	5	32	1	2	14	6	6	•	•	•									5 / 7..12	USB type B / 2.1 mm DC socket	69x53	Arduino Software (IDE) Sketch, C/C++
Arduino MKR FOX 1200	just one model	2018	SAMD21 Cortex-M0+	48	32	3,3	256		32	20	12	7	•	•	•							•	SigFox Connect, Spot`it	5 / 3	Micro USB / battery (AA/AAA)	68x25	Arduino Software (IDE) Sketch, C/C++
Arduino MKR GSM 1400	just one model	2018	SAMD21 Cortex-M0+	48	32	3,3	256		32	20	12	7	•	•	•						•	•	IoT Cloud	5 / 3,7	Micro USB / Li-Po connection	68x25	Arduino Software (IDE) Sketch, C/C++
Arduino MKR NB 1500	just one model	2020	SAMD21 Cortex-M0+	48	32	3,3	256		32	20	12	7	•	•	•							•	LTE Cat M1/NB1 Connect	5 / 3,7	Micro USB / Li-Po connection	68x25	Arduino Software (IDE) Sketch, C/C++
Arduino MKR Vidor 4000	just one model	2019	SAMD21 Cortex-M0+	48	32	3,3	256		32	20	12	7	•	•	•			•	•			•	microHDMI, MIPI, mini PCIe, IoT Cloud	5 / 3,7	Micro USB / battery (AA/AAA)	83x25	Arduino Software (IDE) Sketch, C/C++
Arduino MKR WAN 1300	just one model	2018	SAMD21 Cortex-M0+	48	32	3,3	256		32	20	12	7	•	•	•				•			•	LoRa	5 / 3,7	Micro USB / battery (AA/AAA)	68x25	Arduino Software (IDE) Sketch, C/C++
Arduino MKR WAN 1310	just one model	2020	SAMD21 Cortex-M0+	48	32	3,3	256		32	21	13	7	•	•	•				•			•	LoRa, IoT Cloud	5 / 3,7	Micro USB / Li-Po connection	68x25	Arduino Software (IDE) Sketch, C/C++
Arduino MKR Zero	just one model	2018	SAMD21 Cortex-M0+	48	32	3,3	256		32	22	12	7	•	•	•							•	SD-Slot, Musik	5 / 3,7	Micro USB / Li-Po connection	62x25	Arduino Software (IDE) Sketch, C/C++
Arduino MKR1000 WiFi	with/without socket connector	2018	SAMD21 Cortex-M0+	48	32	3,3	256		32	20	12	7	•	•	•		•		•			•		5 / 3,7	Micro USB / Li-Po connection	62x25	Arduino Software (IDE) Sketch, C/C++
Arduino MKR1010 WiFi	just one model	2020	SAMD21 Cortex-M0+	48	32	3,3	256		32	20	12	7	•	•	•		•	•				•		5 / 3,7	Micro USB / Li-Po connection	62x25	Arduino Software (IDE) Sketch, C/C++
Arduino Nano 33 BLE Sense	with/without pin header	2019	nRF52840	64	32	3,3	1024		256	14	5	9	•	•	•				•			•	various sensors, gestures, microphone, NFC	5 / 7..21	Micro USB / pin header	45x18	Arduino Software (IDE) Sketch, C/C++
Arduino Nano 33 BLE	with/without pin header	2019	nRF52840	64	32	3,3	1024		256	14	5	9	•	•	•				•			•	various sensors, NFC	5 / 7..21	Micro USB / pin header	45x18	Arduino Software (IDE) Sketch, C/C++
Arduino Nano 33 IoT	just one model	2019	ATSAMD21G18A	48	32	3,3	256		32	13	5	8	•	•	•		•	•	•			•	various sensors, IoT Cloud	5 / 7..21	Micro USB / pin header	45x18	Arduino Software (IDE) Sketch, C/C++
Arduino Nano Every	with/without pin header	2019	ATMega 4809	20	8	5	48	0.25	6	13	5	9	•	•	•							•		5 / 7..21	Micro USB / pin header	45x18	Arduino Software (IDE) Sketch, C/C++
Arduino Nano RP2040	with/without pin header	2021	RP2040	133	32	5	16384		264	22	20	8	•	•	•		•	•	•			•	various sensors, microphone, IoT Cloud	5 / 7..21	Micro USB / pin header	45x18	Arduino Software (IDE) Sketch, C/C++
Arduino Portenta H7 Lite	just one model	2021	STM32H747	480	32	3,3	16384		8192	17	10	8	•	•	•	(•)	•		•			•	IoT Cloud, (SD slot), (CAM), (LoRa), DSI, DP	5 / 3,7	USB type C / Li-Po connection	66x25	Arduino Software (IDE) Sketch, C/C++
Arduino Portenta H7	just one model	2020	STM32H747	480	32	3,3	16384		8192	17	10	8	•	•	•	(•)	•		•			•	IoT Cloud, (SD slot), (CAM), (LoRa), DSI, DP	5 / 3,7	USB type C / Li-Po connection	66x25	Arduino Software (IDE) Sketch, C/C++
Arduino Portenta	just one model	2021	STM32H747XI	480	32	24	16384		8192	20	10	10	•	•	•		•		•			•	CAN, RTC, LAN	24	PCB terminal	170x90	Arduino Software (IDE) Sketch, C/C++
Arduino Uno WiFi Rev.2	just one model	2019	ATmega4809	16	8	5	48	0.25	6	14	5	6	•	•	•				•			•	various sensors	5 / 7..12	USB type B / 2.1 mm DC socket	69x53	Arduino Software (IDE) Sketch, C/C++
Arduino Yún Rev.2	just one model	2018	ATmega32u4	16	8	5	32	1	2,5	20	7	12	•	•	•				•			•	LAN, SD slot	5 / 5	Micro USB / female connector	75x54	Arduino Software (IDE) Sketch, C/C++
Arduino Zero	just one model	2021	ATSAMD21G18	48	32	3,3	256		32	20	10	6	•	•	•		2							5 / 9	2.1 mm DC socket / battery (9V)	69x53	Arduino Software (IDE) Sketch, C/C++

Stand: 16.10.2023

(Brackets in the table)	Contain the values of the associated optional developer platform or external connections	GPU	Graphics Processing Unit (Graphic card)	RAM	Random Access Memory (volatile memory)
ADC	Analog Digital Converter (Converter from analog to digital signals)	GSM	Global System for Mobile Communication	RS232	Recommended Standard 232 (serial interface)
Audio	Sound reproduction	HDMI	High Definition Multimedia Interface (video/audio output)	RS422	Recommended Standard 422 (serial interface)
Bit	Binary digit	I²C	Inter-Integrated Circuit (serial data bus)	RS485	Recommended Standard 485 (serial interface)
BT	Bluetooth	ICSP	In Circuit Serial Programming	RTC	Real Time Clock
CAN	Controller Area Network	IR	Impulse Response (infrared)	SATA	Serial ATA interface for e.g. hard drives
CPU	Central Processing Unit (processor)	LAN	Local Area Network (network connection)	SD-Slot	Secure Digital memory card reader
CSI	Camera Serial Interface (camera connection)	Li-Po	Lithium-Polymer Akku	SoC	System-on-a-Chip (combines several components on one chip, e.g. CPU, GPU, LAN, memory, sound, etc.)
DP	Display Port	LoRa	Long Range Wide Area Network	SPI	Serial Peripheral Interface (synchronous serial data bus)
DSI	Display Serial Interface (display connection)	LTE	Long Term Evolution	SRAM	Static Random Access Memory (volatile memory)
EEPROM	Electrically Erasable Programmable Read Only Memory	NFC	Near Field Communication	TWI	Two Wire Interface
eMMC	embedded Multimedia Card (built-in memory)	PCIe	Peripheral Component Interconnect Express	UART	Universal Asynchronous Receiver Transmitter (serial interface)
Flash	Memory modules (non-volatile memory)	Pins	Stiftleistenkontakte	USB	Universal Serial Bus
GPIO	General Purpose Input Output (programmable inputs / outputs)	PWM	Pulse-width modulation (pulse width modulated output signal between 2 logic levels)	WLAN	Wireless Local Area Network (WiFi)